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COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS. VO--ETC(U)
NOV 77 J D SPEAKMAN, R G POWELL, R A LEE
UNCLASSIFIED AMRL-TR-73-110-VOL-2 NL

1 OF 8
AD A053700



AD A053700

AMRL-TR-73-110
Volume 2



COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS

Volume 2. Acoustic Data on Military Aircraft: Air Force Bomber/Cargo Aircraft

J. D. SPEAKMAN
R. G. POWELL
R. A. LEE

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WRIGHT-PATTERSON AIR FORCE BASE, OHIO 45433

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AMRL-TR-73-110 (Vol 2)

This report has been reviewed by the Information Office (OI) and is releasable to the National Technical Information Service (NTIS). At NTIS, it will be available to the general public, including foreign nations.

This technical report has been reviewed and is approved for publication.

FOR THE COMMANDER

HENNING E. VON GIERKE
Director
Biodynamics & Bioengineering Division
Aerospace Medical Research Laboratory

AIR FORCE/56780/14 February 1978 — 150

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This report presents the results of field test measurements to define the single event noise produced on the ground by military, fixed wing aircraft during controlled level flyovers and ground runups. For flight conditions, data are presented in terms of various acoustic measures over the range 200-25,000 feet minimum slant distance to the aircraft. For ground runups, data are presented as a function of angle and distance to the aircraft.

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All of the data are normalized to standard acoustic reference conditions of 59°F temperature and 70% relative humidity. Volume 1 discusses the scope, limitations, and definitions needed to understand and use the volumes containing the noise data. Volume 1 provides guidance for making airspeed and engine power setting adjustments to the flight noise data for other than reference conditions as well as work sheets and several examples for computing cumulative noise exposure resulting from multiple flight or ground runup operations. Noise data are presented in this Volume 2 for the following aircraft: B-1; B-52B,C,D,E; B-52G,F; B-52H; B-57B,C,E; FB-111A; C-5A; C-9A,C; C-135A,D,F,G,H,K,L,N,Q,R,T; C-135B,C,E,J, M,S,U,V; C-140A,B; C-141A; and SR-71.

PREFACE

The authors gratefully acknowledge the many helpful technical discussions and critical reviews of the data acquisition and reduction procedures by Bolt Beranek and Newman Inc. and Mr. John N. Cole of the Biodynamic Environment Branch; development of the OMEGA software programs by Mr. Henry Mohlman and maintenance of the data files by Mr. David Eilerman both of the University of Dayton Research Institute, the instrumentation development and noise measurement efforts of Harald K. Hille of the Biodynamic Environment Branch; and the noise measurement efforts of Capt. N. A. Farinacci of the Biodynamic Environment Branch and Mr. L. Keith Kettler of the University of Dayton Research Institute.

This report is one of a series describing the contractual and in-house research program undertaken by the Aerospace Medical Research Laboratory, Biodynamic Environment Branch, under Project/Task 723104, "Measurement and Prediction of Noise Environments of Air Force Operations," to develop the procedures and acoustic data base required for predicting community noise exposure resulting from aircraft operations.

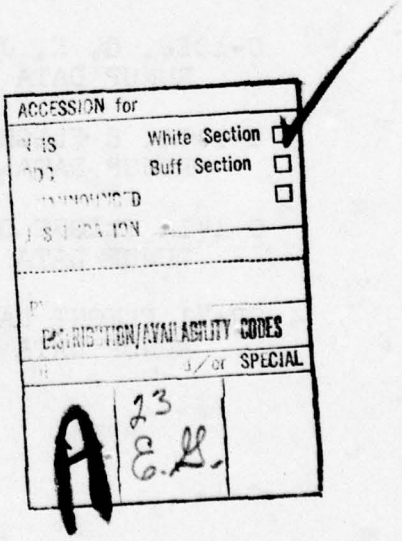


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INTRODUCTION

This report is one of a series published under the same report number (AMRL-TR-73-110) as a multi-volume databook quantifying the single-event far-field noise produced on the ground by flyover and ground runup operations of military aircraft. A companion report (AMRL-TR-73-107, "Community Noise Exposure Resulting From Aircraft Operations: Acquisition and Analysis of Acoustic Data") describes the test protocol and data reduction algorithms associated with these data.

Volume 1 discusses the scope, definitions, and limitations of the noise data volumes as well as providing work sheets and several examples for making hand computations of noise exposure from multiple flight and/or ground runup operations.

Volume 2 provides the noise characteristics of Air Force bomber and cargo type aircraft.

For identification purposes a code number has been assigned that is unique for each aircraft type. The noise data for aircraft codes less than 500 are based on measured flyovers and ground run-ups. The noise data for aircraft codes greater than 500 are estimated from measured data on aircraft having similar engines with adjustments made to account for different numbers of engines or different thrust.

The OMEGA 6.6 output pages describe the flyover noise characteristics while the OMEGA 8.2 output pages show the expected noise levels for *single* engine operation during ground runup.

For ease of comparing flight noise levels of different aircraft, the graphs of noise versus distance shown in the OMEGA 6 printouts are sized to fit the standard 3-cycle by 10 divisions per inch semi-logarithmic paper.

The other noise data volumes are categorized according to:

Vol. 3: Air Force Attack/Fighter Aircraft Noise Data
Vol. 4: Air Force Trainer/Fighter Aircraft Noise Data
Vol. 5: Air Force Propeller Aircraft Noise Data
Vol. 6: Navy Aircraft Noise Data

Direct any questions concerning the data in this report to: AMRL/BBE, Wright-Patterson AFB OH 45433; Autovon 78-53664 or 78-53605; Commercial (513) 255-3664 or (513) 255-3605.

USAF B-1 AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

B-1 AIRCRAFT

DURING FLIGHT OPERATIONS

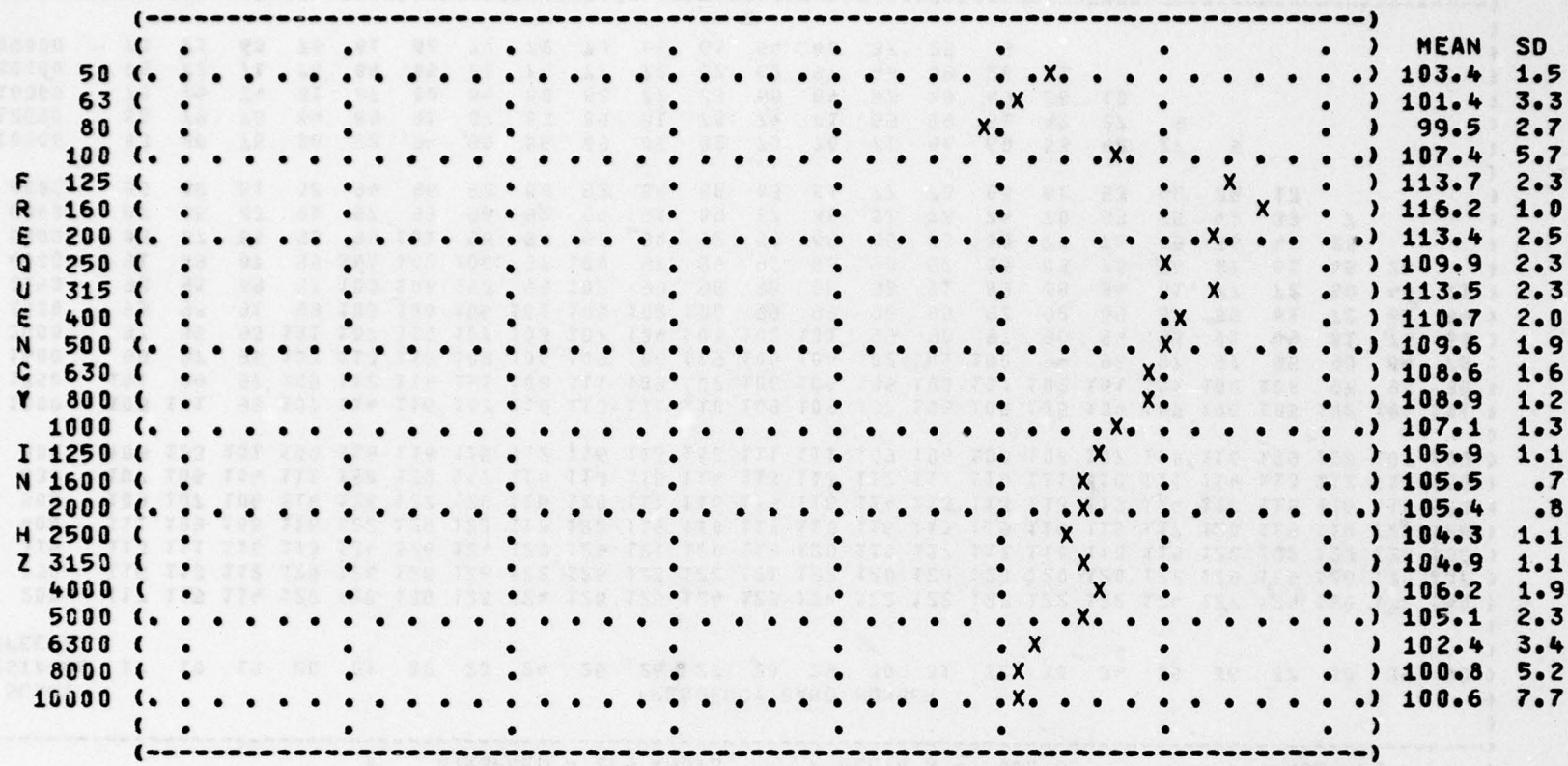
FLYOVER MEASUREMENTS
AIRCRAFT CODE: 039
PROFILE VERSION: B
COMPUTER PROGRAM OMEGA 6.6

POWER SETTING		PAGE
AFTERBURNER	- 97.5% NC, 874 F T4B	5 - 13
CRUISE	- 89.9% NC, 611 F T4B	14 - 22
APPROACH	- 96.5% NC, 830 F T4B	23 - 31
INTERMED (MIL)	- 98.5% NC, 877 F T4B	32 - 40

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

- NORMALIZED MEAN SPL SPECTRUM AT PNLM
- NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
  - AIR-TO-GROUND PROPAGATION
    - SOUND PRESSURE LEVEL SPECTRA
    - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
  - GROUND-TO-GROUND PROPAGATION
    - SOUND PRESSURE LEVEL SPECTRA
    - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO



8-1 AFTERBURNER POWER 97.5 % NC 874 F T4B

AIRSPEED = 275 KNOTS
SLANT DISTANCE = 1000 FEET
NO. OF RECORDS = 7

TEMP = 59 F
REL HUMID = 70 %
IDENT: 6.6-039-101-090977

PNLT = 133.2 PNDB
PNL = 132.7 PNDB
ALT = 118.9 DBA
AL = 118.3 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 039
OPS CODE: 101
PROFILE VER: B
09 SEP 77
PAGE H1

AIRCRAFT:
B-1

OPERATION:
AFTERBURNER POWER
97.5 % NC 874 F T4B
AIRSPEED = 275 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																								
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	117	115	114	122	128	130	128	124	128	125	124	123	124	122	122	122	122	122	124	127	128	128	132	140
250	115	113	112	120	126	128	126	122	126	123	122	121	122	120	120	120	120	120	122	125	125	126	129	137
315	113	111	110	118	124	126	124	120	124	121	120	119	120	118	117	117	118	118	119	122	122	123	126	132
400	111	109	108	116	122	124	122	118	122	119	118	117	118	116	115	115	116	115	117	120	119	119	122	128
500	109	107	106	114	120	122	120	116	120	117	116	115	116	114	113	113	113	113	114	117	116	116	118	123
630	107	105	104	111	118	120	117	114	118	115	114	113	113	112	111	110	111	110	111	114	113	112	113	116
800	105	103	101	109	116	118	115	112	116	113	112	111	111	109	108	108	108	107	108	110	109	108	107	109
1000	103	101	99	107	114	116	113	110	113<	111	110	109	109	107	106	105	105	104	105	106	105	102	101	101
1250	101	99	97	105	112	114	111	108	111	109	107	106	106	105	103	103	102	101	101	102	100	97	93	90
1600	99	97	95	103	110	112	109	106	109	106	105	104	104	102	101	100	99	98	97	97	95	90	84	78
2000	97	95	93	101	107	110	107	103	107	104	103	102	101	99	98	97	96	94	93	91	89	81	73	63
2500	95	93	91	99	105	108	105	101	105	102	100	99	99	96	95	93	92	89	87	85	81	72	60	44
3150	93	91	89	97	103	106	103	99	102	99	98	96	96	93	91	89	88	84	81	77	72	60	44	21
4000	91	89	87	95	101	103	100	97	100	97	95	93	93	90	87	85	83	78	74	67	61	46	24	
5000	89	87	85	93	99	101	98	94	97	94	92	90	89	86	83	80	77	71	65	56	48	28		
6300	87	85	83	91	97	99	96	92	95	91	89	87	86	82	78	74	70	63	55	42	33	7		
8000	85	83	81	88	94	96	93	89	92	88	86	83	81	77	73	68	62	53	42	26	13			
10000	83	80	78	86	92	94	90	86	89	85	82	79	76	71	66	60	53	42	27	5				
12500	80	78	76	84	89	91	87	83	85	81	78	74	71	65	59	51	42	27	9					
16000	78	76	74	81	87	88	84	80	82	77	73	68	64	57	49	40	28	10						
20000	76	73	71	78	84	85	81	76	77	72	67	62	57	48	39	26	11							
25000	73	71	68	75	81	82	77	72	73	66	61	54	48	37	25	9								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 039
OPS CODE: 101
PROFILE VER: B
09 SEP 77
PAGE I1

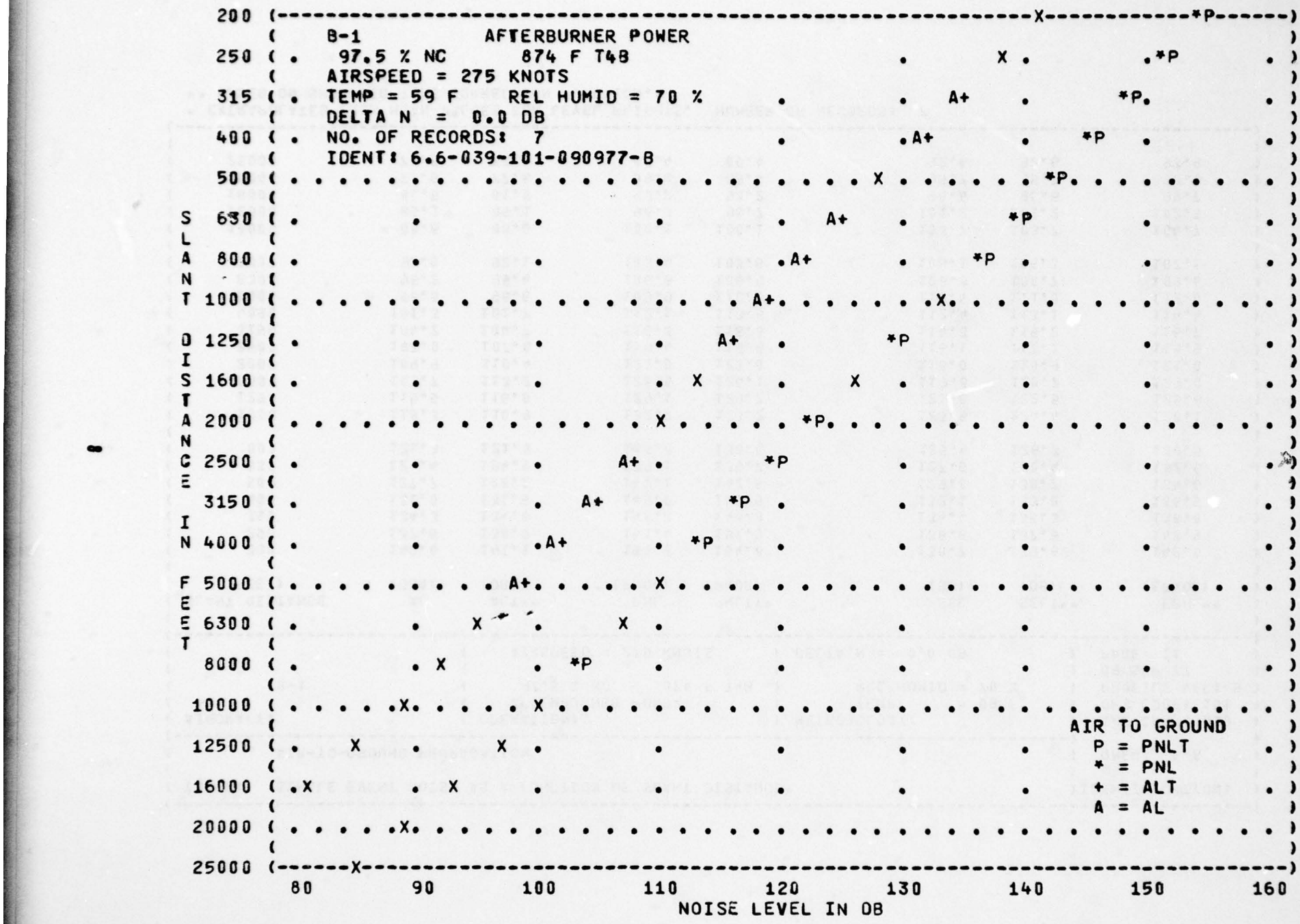
AIRCRAFT: B-1

OPERATION:
AFTERBURNER POWER
97.5 % NC 874 F T4B
AIRSPEED = 275 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	140.6	141.1	154.3	154.8	138.7	139.6	142.8
250	137.5	138.0	151.4	151.9	136.6	137.5	140.9
315	134.3	134.8	148.3	148.8	134.4	135.3	138.8
400	131.0	131.5	145.0	145.5	132.1	133.0	136.5
500	127.7	128.2	142.1	142.6	129.8	130.7	134.6
630	124.4	124.9	139.1	139.7	127.5	128.4	132.6
800	121.3	121.8	136.0	136.5	125.4	126.3	130.5
1000	118.3	118.9	132.7	133.2	123.5	124.4	128.1
1250	115.5	116.0	129.1	129.7	121.6	122.5	125.6
1600	112.7	113.2	125.5	126.1	119.8	120.7	123.0
2000	109.9	110.4	122.5	123.0	118.0	118.9	121.0
2500	107.0	107.6	119.4	119.9	116.1	117.1	118.9
3150	104.2	104.7	116.3	116.8	114.3	115.2	116.7
4000	101.3	101.7	113.1	113.5	112.4	113.1	114.4
5000	98.3	98.6	109.9	110.2	110.4	111.0	112.0
6300	95.2	95.4	106.6	106.9	108.3	108.7	109.6
8000	92.0	92.1	103.4	103.5	106.1	106.3	107.1
10000	88.6	88.6	100.1	100.1	103.7	103.7	104.7
12500	85.1	85.1	96.7	96.7	101.2	101.2	102.3
16000	81.5	81.5	93.2	93.2	98.6	98.6	99.7
20000	77.6	77.6	89.4	89.4	95.7	95.7	96.9
25000	73.5	73.5	85.4	85.4	92.6	92.6	93.9

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-1 AFTERBURNER POWER
97.5 % NC 874 F T4B
AIRSPEED = 275 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 7
IDENT: 6.6-039-101-090977-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
80
90
100
110
120
130
140
150
160
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

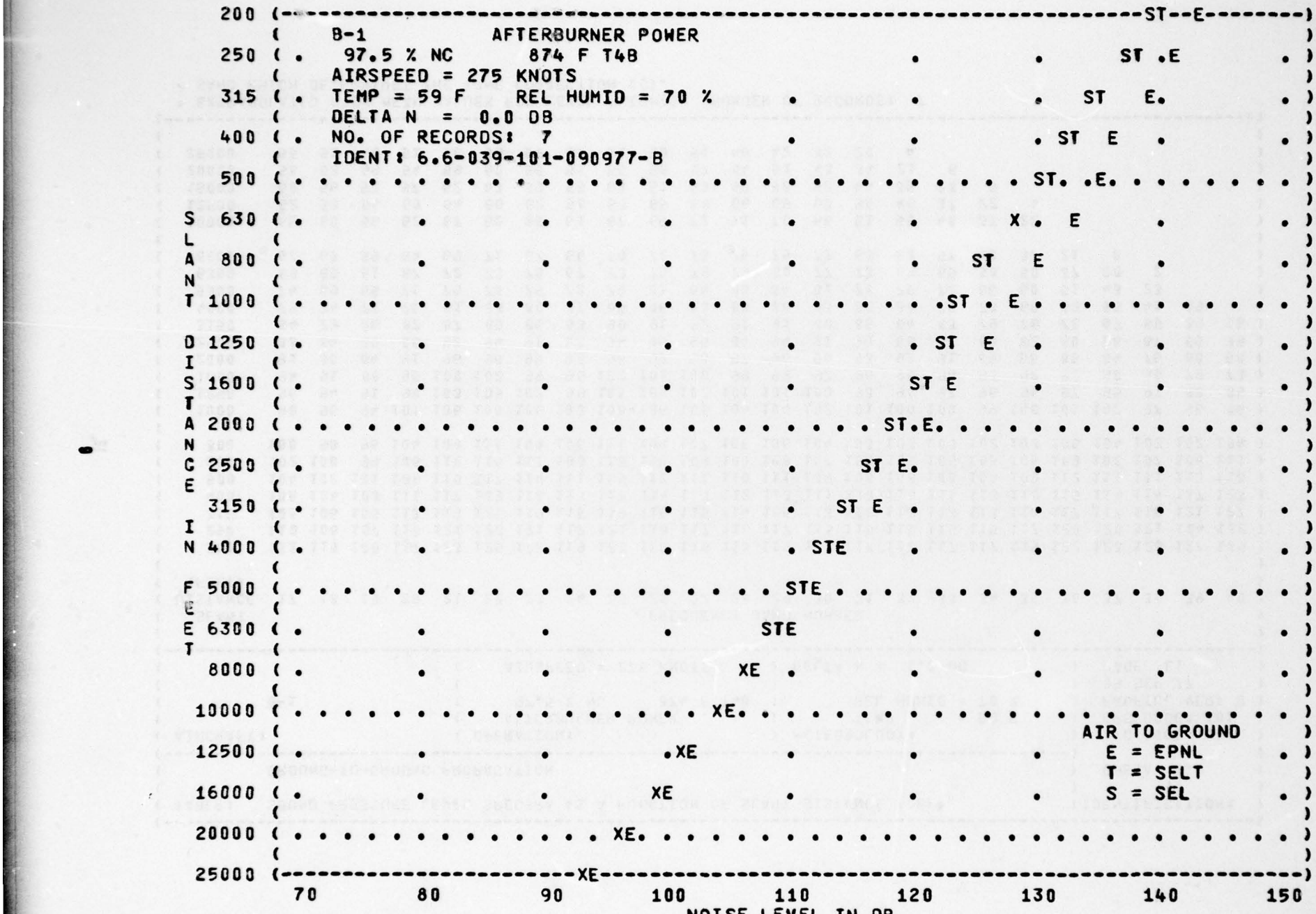

B-1 AFTERBURNER POWER
97.5 % NC 874 F T4B
AIRSPEED = 275 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 7
IDENT: 6.6-039-101-090977-B
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

AIRCRAFT: B-1

OPERATION: AFTERBURNER POWER
97.5 % NC 874 F T4B
AIRSPEED = 275 KNOTS

METEOROLOGY: TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 039
OPS CODE: 101
PROFILE VER: B
09 SEP 77
PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	112	110	109	117	123	125	123	119	123	120	119	118	119	117	117	117	117	117	119	122	123	123	127	135
250	110	108	107	115	121	123	121	117	121	118	117	116	117	115	115	115	115	115	117	120	120	121	124	132
315	108	106	105	113	119	121	119	115	119	116	115	114	115	113	112	112	113	113	114	117	117	118	121	127
400	106	104	103	111	117	119	116	113	117	114	113	112	113	111	110	110	111	110	112	115	114	114	117	123
500	104	102	101	109	115	117	114	111	115	112	111	110	111	109	108	108	108	108	109	112	111	111	113	118
630	102	100	99	106	112	114	111	108	113	110	109	108	108	107	106	105	106	105	106	109	108	107	108	111
800	100	98	96	104	109	111	109	106	111	108	107	106	106	104	103	103	103	102	103	105	104	103	102	104
1000	98	96	94	101	106	108	106	103	108	<106	105	104	104	102	101	100	100	99	100	101	100	97	96	96
1250	96	94	91	98	103	105	102	99	105	104	102	101	101	100	98	98	97	96	96	97	95	92	88	85
1600	94	91	88	95	100	102	99	96	102	101	100	99	99	97	96	95	94	93	92	92	90	85	79	73
2000	91	88	84	91	96	98	95	92	98	99	98	97	96	94	93	92	91	89	88	86	84	76	68	58
2500	88	84	80	86	92	94	91	88	94	95	95	94	94	91	90	88	87	84	82	80	76	67	55	39
3150	84	79	76	82	87	89	86	83	90	91	92	91	91	88	86	84	83	79	76	72	67	55	39	16
4000	79	74	70	76	81	83	80	77	85	86	88	88	88	85	82	80	78	73	69	62	56	41	19	
5000	74	69	65	71	76	78	75	72	79	81	84	83	84	81	78	75	72	66	60	51	43	23		
6300	69	65	61	67	72	73	70	67	73	75	79	79	80	77	73	69	65	58	50	37	28	2		
8000	67	63	59	64	69	71	67	64	70	72	76	75	75	72	68	63	57	48	37	21	8			
10000	65	60	56	62	67	68	65	61	67	69	72	71	70	66	61	55	48	37	22	0				
12500	62	58	54	60	64	66	62	58	63	65	68	66	65	60	54	46	37	22	4					
16000	60	56	52	57	62	63	59	55	60	61	63	60	58	52	44	35	23	5						
20000	58	53	49	54	59	60	55	51	55	56	57	54	51	43	34	21	6							
25000	55	51	46	51	56	56	52	47	51	50	51	46	42	32	20	4								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-1

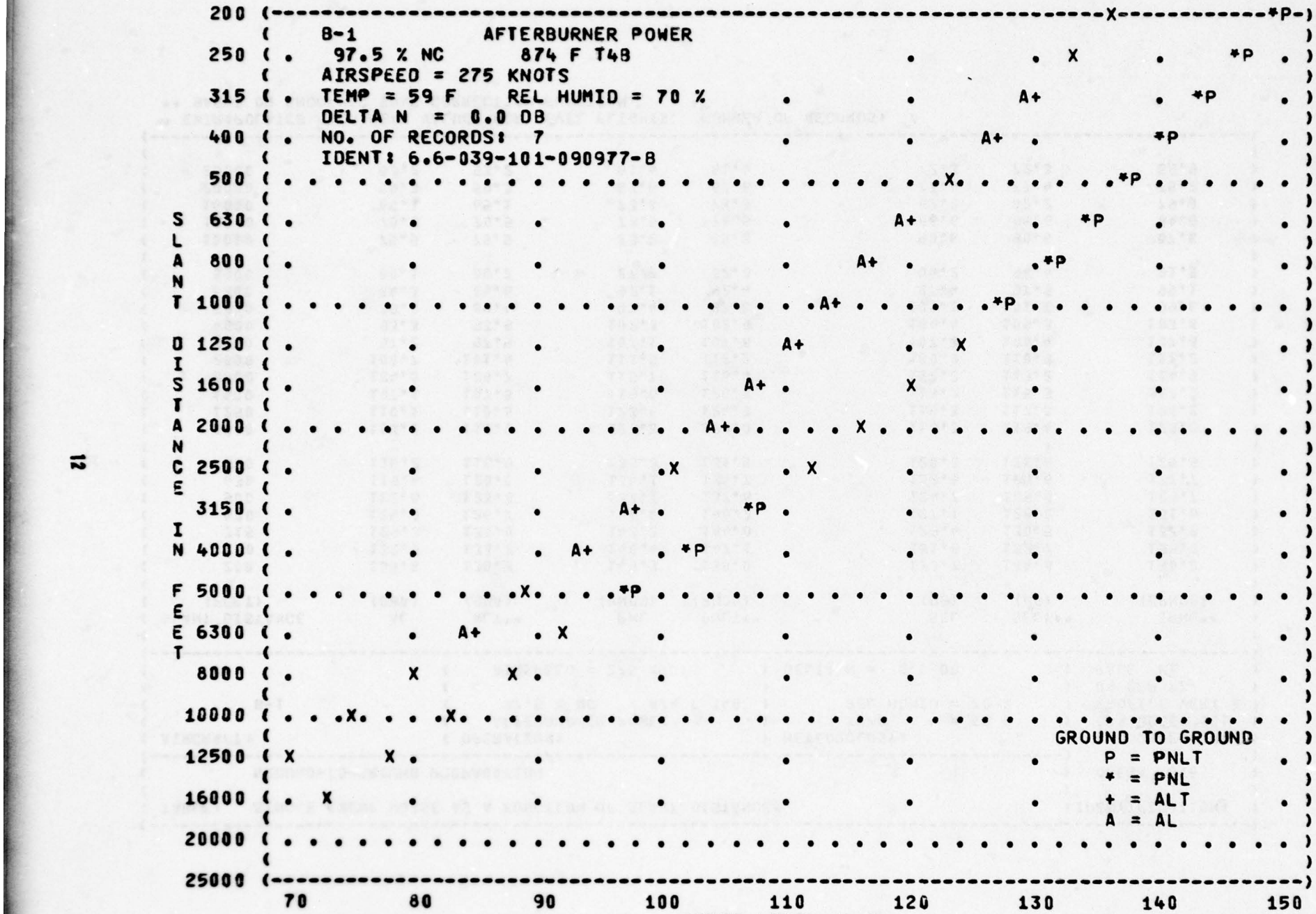
OPERATION:
AFTERBURNER POWER
97.5 % NC 874 F T4B
AIRSPEED = 275 KNOTS

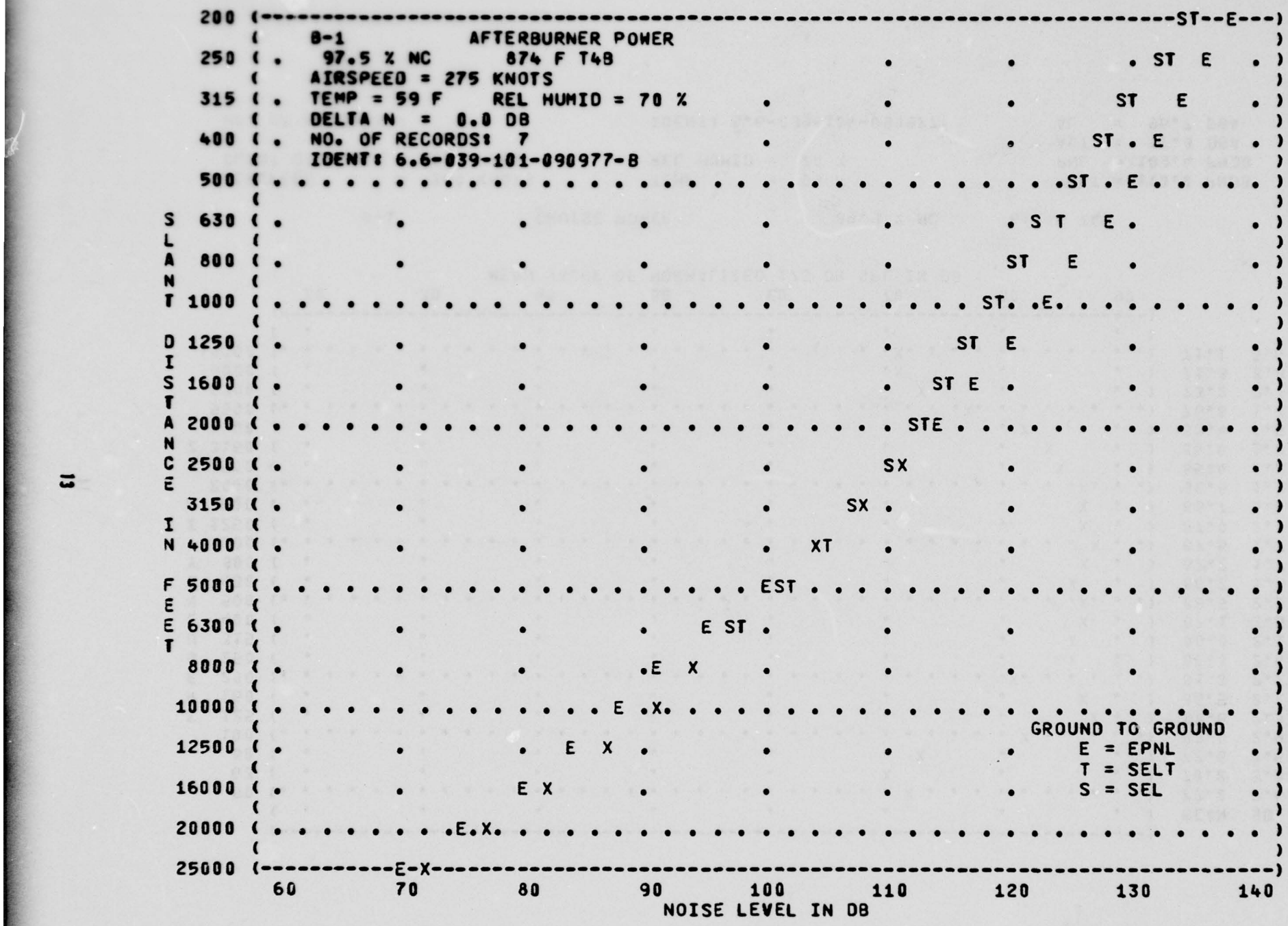
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

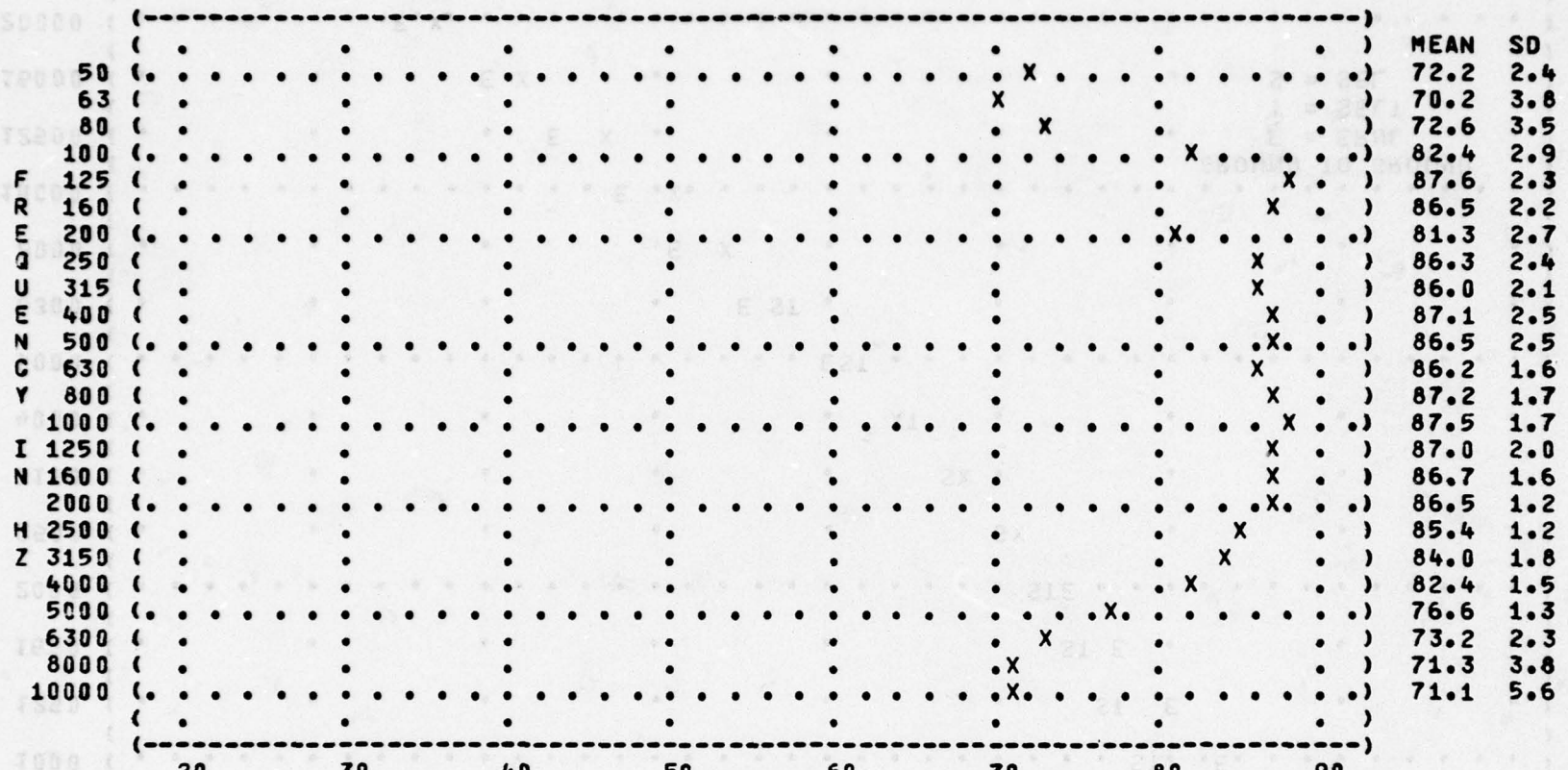
A/C CODE: 039
OPS CODE: 101
PROFILE VER: B
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PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	135.6	136.3	149.3	150.0	133.7	134.8	138.0
250	132.5	133.2	146.4	147.1	131.6	132.7	136.0
315	129.3	130.0	143.3	144.0	129.4	130.5	133.9
400	126.0	126.7	140.0	140.7	127.1	128.2	131.6
500	122.6	123.3	137.1	137.8	124.7	125.8	129.7
630	119.4	120.0	134.1	134.7	122.5	123.6	127.7
800	116.2	116.9	130.8	131.5	120.3	121.4	125.5
1000	113.2	113.9	127.3	128.0	118.3	119.4	123.0
1250	110.1	110.8	123.6	124.3	116.3	117.3	120.2
1600	107.1	107.8	119.6	120.3	114.2	115.3	117.2
2000	104.0	104.7	115.7	116.4	112.2	113.2	114.3
2500	100.7	101.4	111.5	112.2	109.9	110.9	111.2
3150	97.2	97.9	107.1	107.8	107.3	108.4	107.8
4000	93.3	93.9	102.3	102.9	104.4	105.3	103.8
5000	89.0	89.4	97.4	97.8	101.1	101.7	99.6
6300	84.3	84.6	92.1	92.4	97.4	97.9	95.1
8000	80.1	80.2	87.7	87.8	94.2	94.4	91.5
10000	75.5	75.5	83.2	83.2	90.6	90.6	87.8
12500	70.5	70.5	78.5	78.5	86.6	86.6	84.0
16000	65.1	65.1	73.3	73.3	82.2	82.2	79.8
20000	59.3	59.3	67.6	67.6	77.4	77.4	75.2
25000	53.2	53.2	61.4	61.4	72.3	72.3	69.9

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-1 AFTERBURNER POWER
97.5 % NC 874 F T48
AIRSPEED = 275 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 7
IDENT: 6.6-039-101-090977-8
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB


B-1 AFTERBURNER POWER
97.5 % NC 874 F T4B
AIRSPEED = 275 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 7
IDENT: 6.6-039-101-090977-B
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB



B-1 CRUISE POWER 89.9 % NC 611 F T48

AIRSPEED = 360 KNOTS
SLANT DISTANCE = 1000 FEET
NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %
IDENT: 6.6-039-104-090977

PNLT = 110.0 PNDB
PNL = 109.4 PNDB
ALT = 97.3 DBA
AL = 96.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-1

OPERATION:
CRUISE POWER
89.9 % NC 611 F T48
AIRSPEED = 360 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 039
OPS CODE: 104
PROFILE VER: B
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PAGE H2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	86	84	87	97	102	101	96	101	100	102	101	101	102	103	103	103	103	103	102	103	98	98	100	107
250	84	82	85	94	100	99	94	99	98	100	99	99	100	101	100	101	101	100	100	100	96	95	97	104
315	82	80	83	92	98	97	92	97	96	98	97	97	98	99	98	98	99	98	98	98	93	92	94	100
400	80	78	81	90	96	95	90	94	94	95	95	95	96	96	96	96	96	96	95	95	90	89	91	96
500	78	76	79	88	94	93	87	92	92	93	93	93	94	94	94	94	94	93	93	92	87	86	87	91
630	76	74	77	86	92	91	85	90	90	91	91	91	92	92	92	92	92	91	90	89	84	82	82	85
800	74	72	75	84	90	89	83	88	88	89	89	88	89	90	89	89	89	88	87	86	81	78	77	79
1000	72	70	73	82	88<	87	81	86	86	87	87	86	87	88	87	87	87	85	84	82	77	73	71	71
1250	70	68	71	80	86	84	79	84	84	85	84	84	85	85	85	84	84	82	81	78	72	68	64	62
1600	68	66	69	78	84	82	77	82	82	83	82	82	83	83	82	81	81	79	77	74	67	62	56	51
2000	66	64	66	76	81	80	75	80	80	81	80	79	80	80	79	78	77	75	73	69	61	54	46	38
2500	64	62	64	74	79	78	73	78	77	78	77	77	77	77	76	75	74	71	68	63	55	45	35	21
3150	62	60	62	72	77	76	71	75	75	76	75	74	75	74	73	71	70	67	62	56	47	35	20	1
4000	60	58	60	70	75	74	68	73	73	73	72	71	72	71	69	67	65	61	55	47	37	22	3	
5000	58	56	58	68	73	72	66	71	70	71	70	68	68	68	65	63	60	55	48	37	26	7		
6300	56	54	56	66	71	69	64	68	68	68	67	65	65	64	61	58	54	48	39	25	12			
8000	54	52	54	63	68	67	61	66	65	65	63	62	61	59	56	52	47	39	27	10				
10000	52	49	52	61	66	64	59	63	62	62	60	58	57	54	50	45	39	28	14					
12500	49	47	49	59	64	62	56	60	59	58	56	53	51	48	43	36	28	16						
16000	47	45	47	56	61	59	53	57	55	54	51	48	46	41	35	26	16	0						
20000	45	42	44	54	58	56	50	53	51	50	46	42	39	33	25	14	2							
25000	42	40	42	51	55	53	46	49	47	45	41	36	30	23	13									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: B-1

OPERATION: CRUISE POWER 89.9 % NC 611 F T4B AIRSPEED = 360 KNOTS

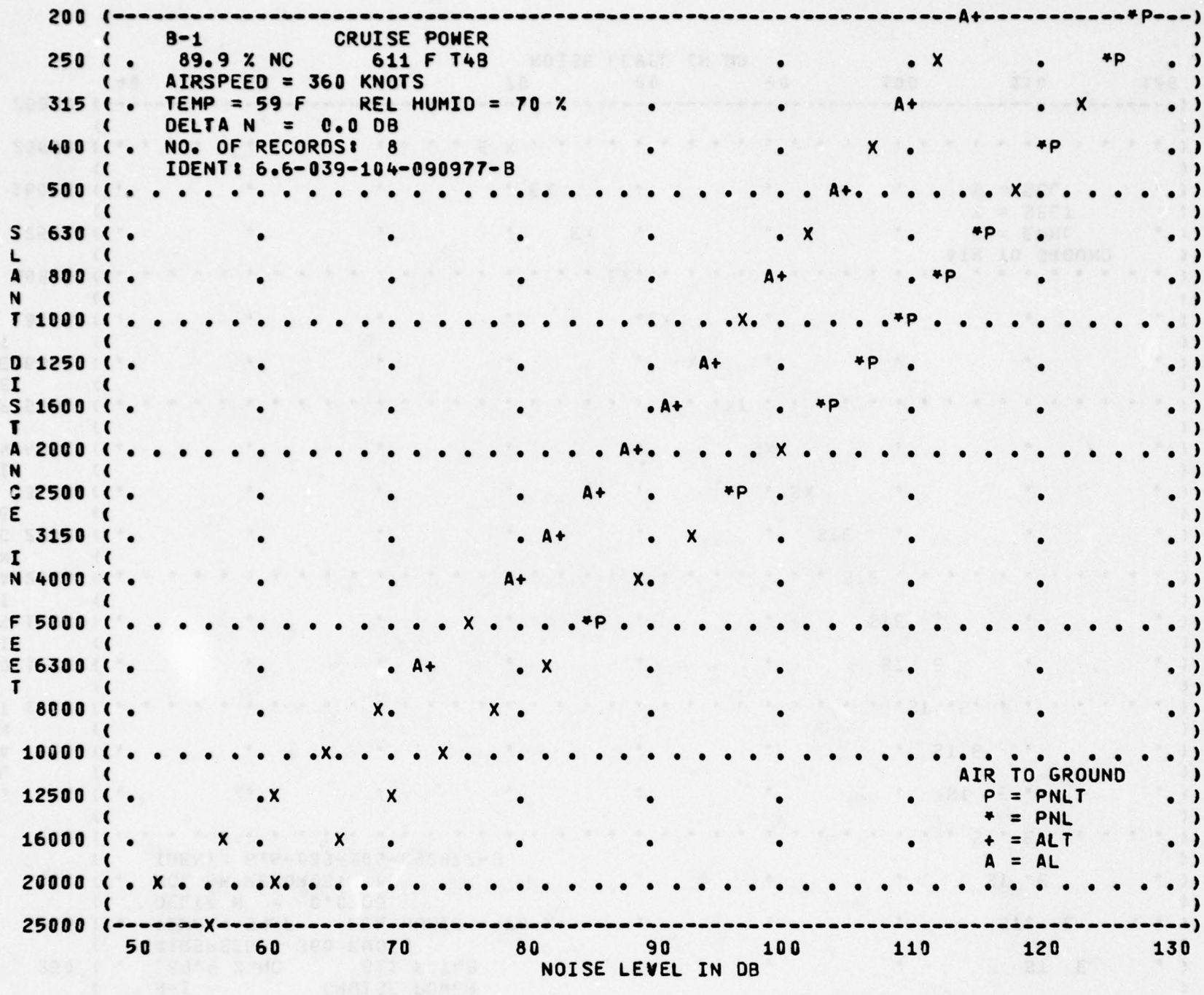
METEOROLOGY: TEMP = 59 F REL HUMID = 70 % DELTA N = 0.0 DB

A/C CODE: 039 OPS CODE: 104 PROFILE VER: B 09 SEP 77 PAGE I2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	114.0	114.5	127.5	128.0	111.2	112.2	115.6
250	111.6	112.2	125.1	125.7	109.8	110.9	114.3
315	109.2	109.8	122.8	123.3	108.4	109.5	112.9
400	106.8	107.4	120.3	120.8	107.0	108.1	111.5
500	104.4	104.9	117.7	118.3	105.6	106.6	109.9
630	101.9	102.4	115.1	115.6	104.1	105.1	108.2
800	99.3	99.9	112.3	112.8	102.5	103.6	106.4
1000	96.7	97.3	109.4	110.0	101.0	102.0	104.6
1250	94.1	94.6	106.4	106.9	99.3	100.3	102.6
1600	91.3	91.8	103.2	103.8	97.5	98.6	100.4
2000	88.5	89.0	99.9	100.4	95.7	96.7	98.0
2500	85.5	86.0	96.5	97.0	93.7	94.7	95.6
3150	82.4	82.9	92.8	93.3	91.6	92.6	92.9
4000	79.2	79.6	88.9	89.4	89.4	90.2	89.9
5000	75.8	76.1	85.5	85.8	87.0	87.6	87.2
6300	72.3	72.5	81.9	82.1	84.5	84.9	84.4
8000	68.6	68.7	78.1	78.2	81.8	82.0	81.5
10000	64.8	64.8	74.2	74.2	79.0	79.0	78.3
12500	60.9	60.9	70.1	70.1	76.1	76.1	75.2
16000	56.8	56.8	65.6	65.6	73.0	73.0	71.7
20000	52.5	52.5	60.8	60.8	69.7	69.7	67.9
25000	48.0	48.0	55.9	55.9	66.2	66.2	64.0

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-1 CRUISE POWER
89.9 % NC 611 F T48
AIRSPEED = 360 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-039-104-090977-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

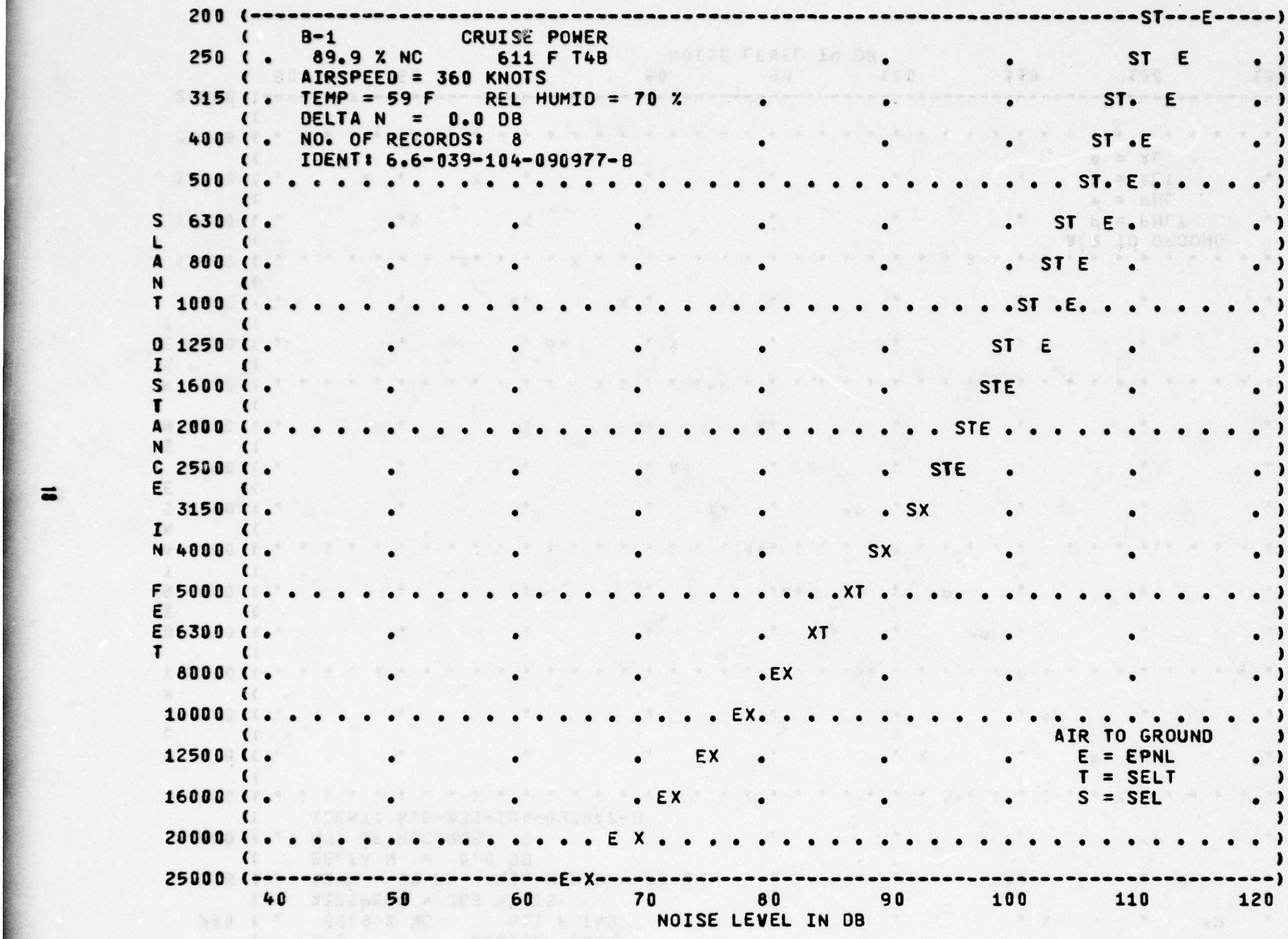

B-1 CRUISE POWER
89.9 % NC 611 F T4B
AIRSPEED = 360 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-039-104-090977-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
AIR TO GROUND
E = EPNL
T = SELT
S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-1

OPERATION:
CRUISE POWER
89.9 % NC 611 F T4B
AIRSPEED = 360 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 039
OPS CODE: 104
PROFILE VER: B
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PAGE L2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	81	79	82	92	97	96	91	96	95	97	96	96	97	98	98	98	98	98	97	98	93	93	95	102
250	79	77	80	89	95	94	89	94	93	95	94	94	95	96	95	96	96	95	95	95	91	90	92	99
315	77	75	78	87	93	92	87	92	91	93	92	92	93	94	93	93	94	93	93	93	88	87	89	95
400	75	73	76	85	91	89	84	89	89	90	90	90	91	91	91	91	91	91	90	90	85	84	86	91
500	73	71	74	83	89	87	82	87	87	88	88	88	89	89	89	89	89	88	88	87	82	81	82	86
630	71	69	72	81	86	84	79	85	85	86	86	86	87	87	87	87	87	86	85	84	79	77	77	80
800	69	67	70	79	83	82	77	82	83	84	84	83	84	85	84	84	84	83	82	81	76	73	72	74
1000	67	65	68	76	80	79	74	79	81	82	82	81	82	83	82	82	82	80	79	77	72	68	66	66
1250	65	63	65	73	77	76	70	76	78	80	79	79	80	80	80	79	79	77	76	73	67	63	59	57
1600	63	60	61	70	74	72	67	72	75	78	77	77	78	78	77	76	76	74	72	69	62	57	51	46
2000	60	56	57	66	70	68	63	68	71	76	75	74	75	75	74	73	72	70	68	64	56	49	41	33
2500	56	52	53	61	66	64	59	64	67	72	72	72	72	72	71	70	69	66	63	58	50	40	30	16
3150	53	48	49	57	61	59	54	59	63	68	69	69	70	69	68	66	65	62	57	51	42	30	15	
4000	48	43	43	51	55	53	48	53	57	63	65	66	67	66	64	62	60	56	50	42	32	17		
5000	43	38	39	46	50	49	43	48	52	57	61	62	63	63	60	58	55	50	43	32	21	2		
6300	38	34	34	42	46	44	38	43	46	52	57	57	59	59	56	53	49	43	34	20	7			
8000	36	32	32	39	43	41	36	41	43	49	53	54	55	54	51	47	42	34	22	5				
10000	34	29	30	37	41	39	33	38	40	46	50	50	51	49	45	40	34	23	9					
12500	31	27	27	35	39	36	30	35	37	42	46	45	45	43	38	31	23	11						
16000	29	25	25	32	36	34	27	32	33	38	41	40	40	36	30	21	11							
20000	27	22	22	30	33	31	24	28	29	34	36	34	33	28	20	9								
25000	24	20	20	27	30	27	21	24	25	29	31	28	24	18	8									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-1

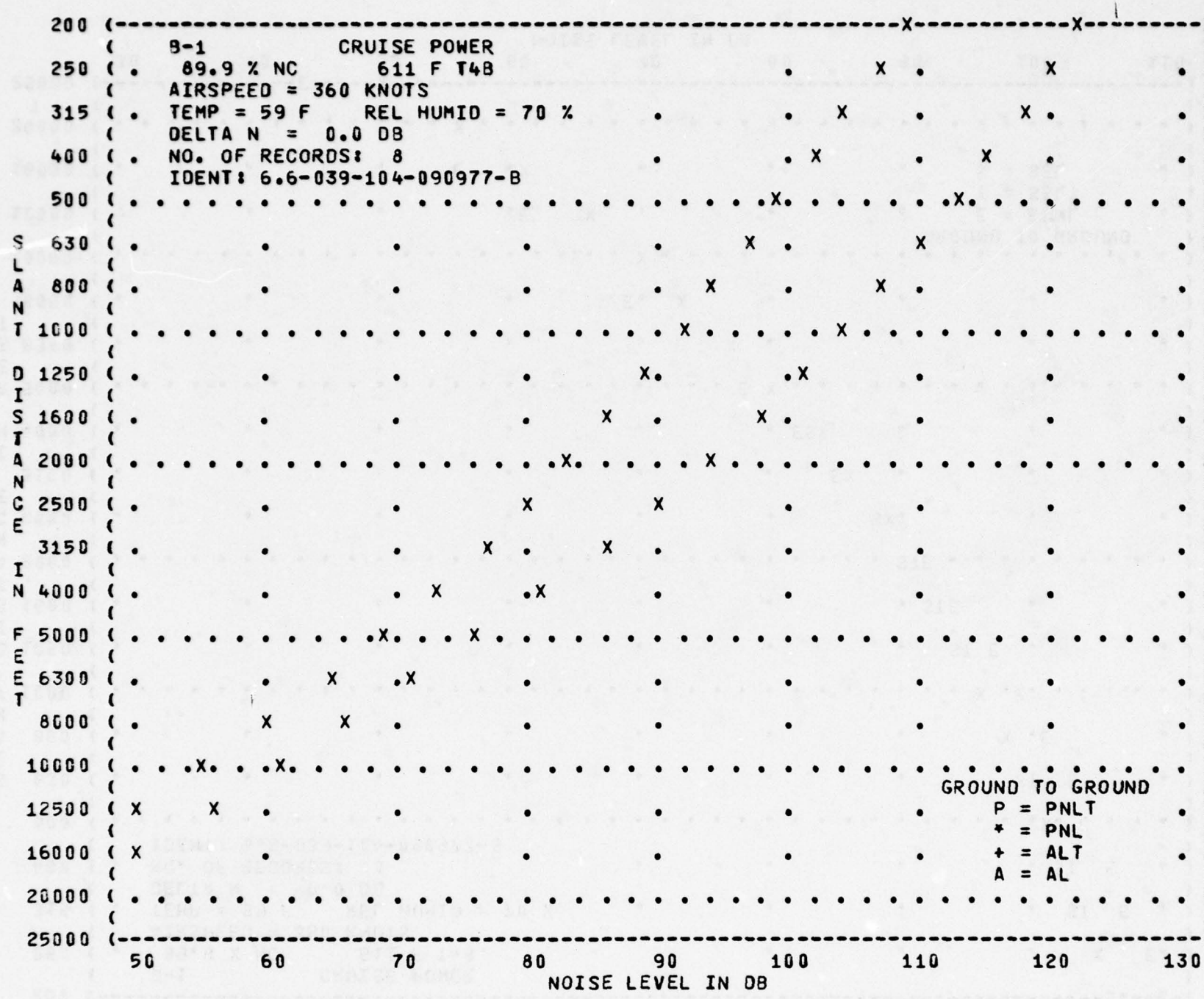
OPERATION:
CRUISE POWER
89.9 % NC 611 F T4B
AIRSPEED = 360 KNOTS

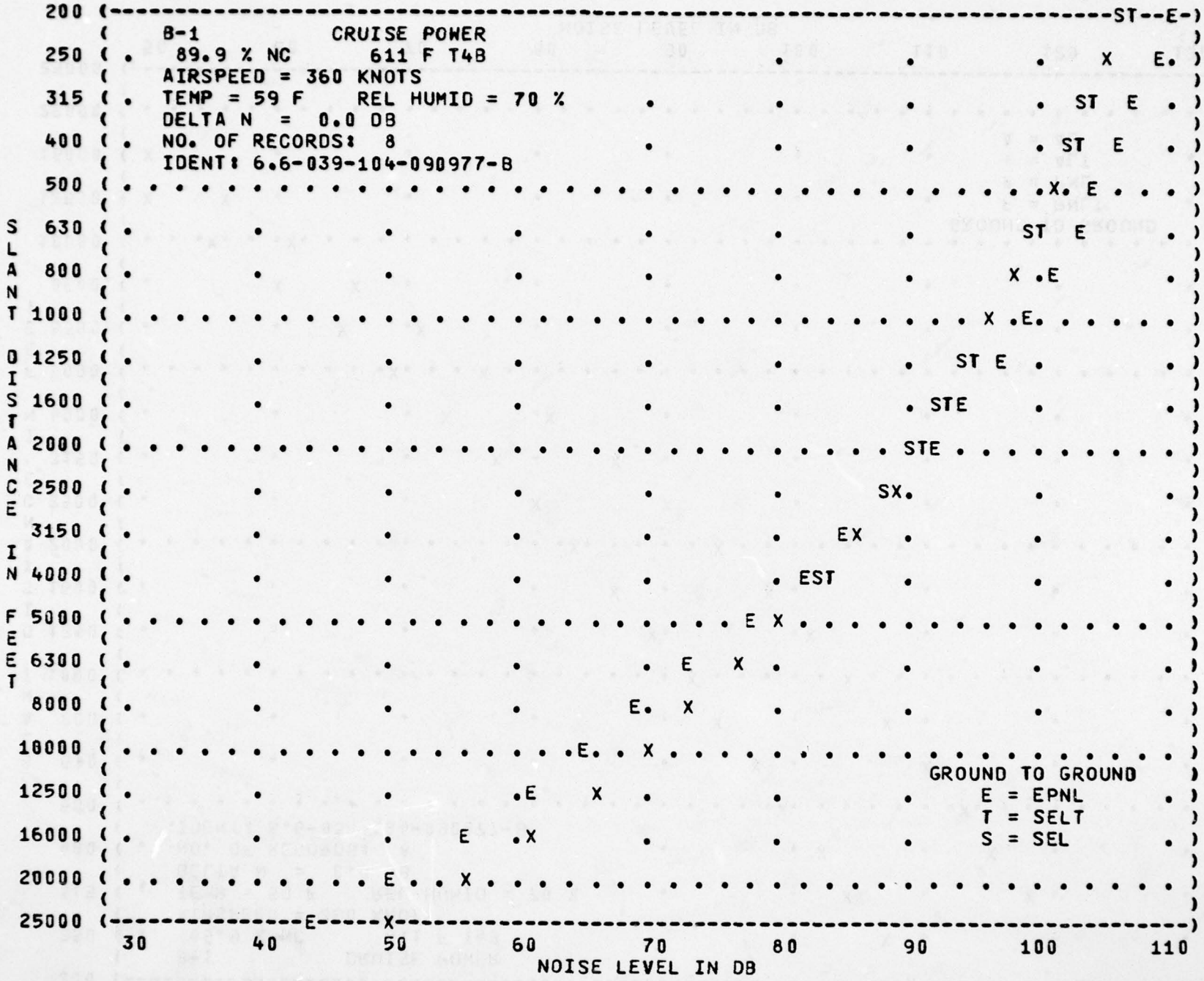
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

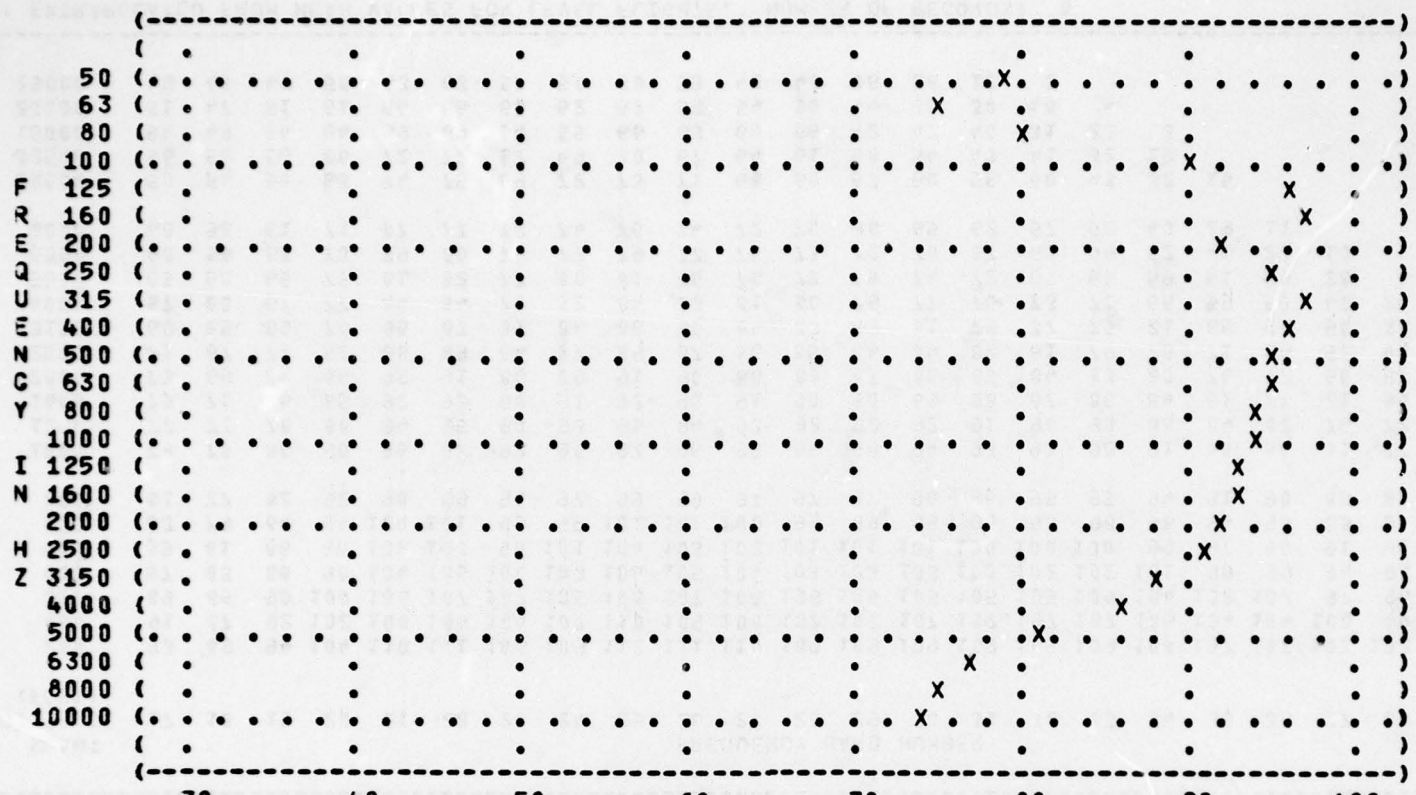
A/C CODE: 039
OPS CODE: 104
PROFILE VER: B
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SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	109.0	109.0	122.5	122.5	106.2	106.7	110.1
250	106.6	106.6	120.1	120.1	104.8	105.3	108.7
315	104.2	104.2	117.7	117.7	103.4	104.0	107.4
400	101.8	101.8	115.3	115.3	102.0	102.5	105.9
500	99.4	99.4	112.7	112.7	100.6	101.1	104.3
630	96.9	96.9	110.0	110.0	99.1	99.6	102.6
800	94.3	94.3	107.1	107.1	97.5	98.0	100.8
1000	91.7	91.7	104.2	104.2	95.9	96.4	98.8
1250	89.0	89.0	101.0	101.0	94.2	94.7	96.6
1600	86.2	86.2	97.6	97.6	92.4	92.9	94.2
2000	83.3	83.3	93.9	93.9	90.5	91.0	91.5
2500	80.1	80.1	90.0	90.0	88.3	88.8	88.7
3150	76.7	76.7	85.8	85.8	85.9	86.4	85.4
4000	73.1	73.1	81.1	81.1	83.3	83.7	81.6
5000	69.0	69.0	76.1	76.1	80.2	80.5	77.5
6300	64.5	64.5	70.8	70.8	76.7	76.9	73.1
8000	60.1	60.1	66.2	66.2	73.3	73.4	69.4
10000	55.4	55.4	61.1	61.1	69.6	69.6	65.3
12500	50.3	50.3	55.8	55.8	65.5	65.5	60.9
16000	44.7	44.7	50.1	50.1	60.9	60.9	56.2
20000	38.7	38.7	43.3	43.3	55.9	55.9	50.5
25000	32.2	32.2	35.6	35.6	50.4	50.4	43.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-1 CRUISE POWER
89.9 % NC 611 F T4B
AIRSPEED = 360 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-039-104-090977-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB


B-1 CRUISE POWER
89.9 % NC 611 F T4B
AIRSPEED = 360 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-039-104-090977-B
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB



	MEAN	SD
50	78.9	2.7
63	74.8	4.8
80	79.7	2.3
100	89.7	.6
125	96.1	2.5
160	97.1	2.9
200	92.2	5.1
250	95.1	1.9
315	97.3	3.0
400	96.4	1.0
500	95.2	.9
630	94.7	1.9
800	94.3	1.5
1000	94.0	1.4
1250	93.5	1.9
1600	92.9	2.4
2000	92.4	2.5
2500	90.7	2.5
3150	88.0	3.0
4000	86.3	3.8
5000	80.6	3.5
6300	77.1	3.5
8000	75.0	3.7
10000	74.3	4.2

B-1 APPROACH POWER 96.5 % NC 830 F T48

AIRSPEED = 185 KNOTS
SLANT DISTANCE = 1000 FEET
NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %
IDENT: 6.6-039-105-090977

PNLT = 115.7 PNDB
PNL = 115.7 PNDB
ALT = 103.5 DBA
AL = 103.5 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
B-1

OPERATION:
APPROACH POWER
96.5 % NC 830 F T48
AIRSPEED = 185 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 039
OPS CODE: 105
PROFILE VER: B
09 SEP 77
PAGE H3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	93	89	94	104	110	111	106	109	112	111	110	109	109	109	109	109	109	108	107	107	102	102	105	112
250	91	87	92	102	108	109	104	107	110	109	108	107	107	107	107	107	107	106	104	104	100	99	102	108
315	89	85	90	100	106	107	102	105	108	107	106	105	105	105	105	105	105	104	102	102	97	96	99	104
400	87	83	88	98	104	105	100	103	106	105	104	103	103	103	103	102	102	101	99	99	94	93	95	100
500	85	81	86	96	102	103	98	101	104	103	102	101	101	101	100	100	100	99	97	96	91	90	91	95
630	83	79	84	94	100	101	96	99	101	101	100	99	99	99	98	98	98	96	94	93	88	86	86	89
800	81	77	82	92	98	99	94	97	99	99	97	97	97	96	96	95	95	94	91	90	85	82	81	82
1000	79	75	80	90	96	97	92	95	97	96	95	95	94	94	93	93	92	91	88	86	81	77	75	74
1250	77	73	78	88	94	95	90	93	95	94	93	92	92	92	91	90	90	88	84	82	76	72	68	65
1600	75	71	76	86	92	93	88	91	93	92	91	90	90	89	88	87	86	84	81	77	71	65	59	53
2000	73	69	74	84	90	91	86	89	91	90	88	88	87	86	85	84	83	80	76	72	65	57	49	39
2500	71	67	72	82	88	89	84	87	89	87	86	85	84	84	82	81	79	76	71	66	58	48	37	22
3150	69	65	69	79	86	87	81	84	86	85	84	83	82	81	79	77	75	71	65	59	50	38	22	1
4000	67	63	67	77	84	84	79	82	84	83	81	80	79	77	76	73	71	66	59	50	40	24	4	
5000	65	60	65	75	81	82	77	80	81	80	78	77	75	74	72	69	65	59	51	39	28	8		
6300	63	58	63	73	79	80	74	77	79	77	75	73	72	70	67	63	59	52	41	27	13			
8000	60	56	61	71	77	77	72	74	76	74	72	70	68	65	62	57	52	43	29	11				
10000	58	54	59	68	74	75	69	72	73	71	68	66	63	60	56	50	43	32	15					
12500	56	52	56	66	72	72	67	69	70	67	64	61	58	54	48	41	32	19						
16000	54	49	54	64	69	69	64	65	66	63	60	56	52	47	40	31	20	3						
20000	51	47	51	61	66	66	60	62	62	59	54	50	44	38	30	18	4							
25000	49	45	49	58	63	63	57	58	58	53	48	43	36	28	18	3								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-1

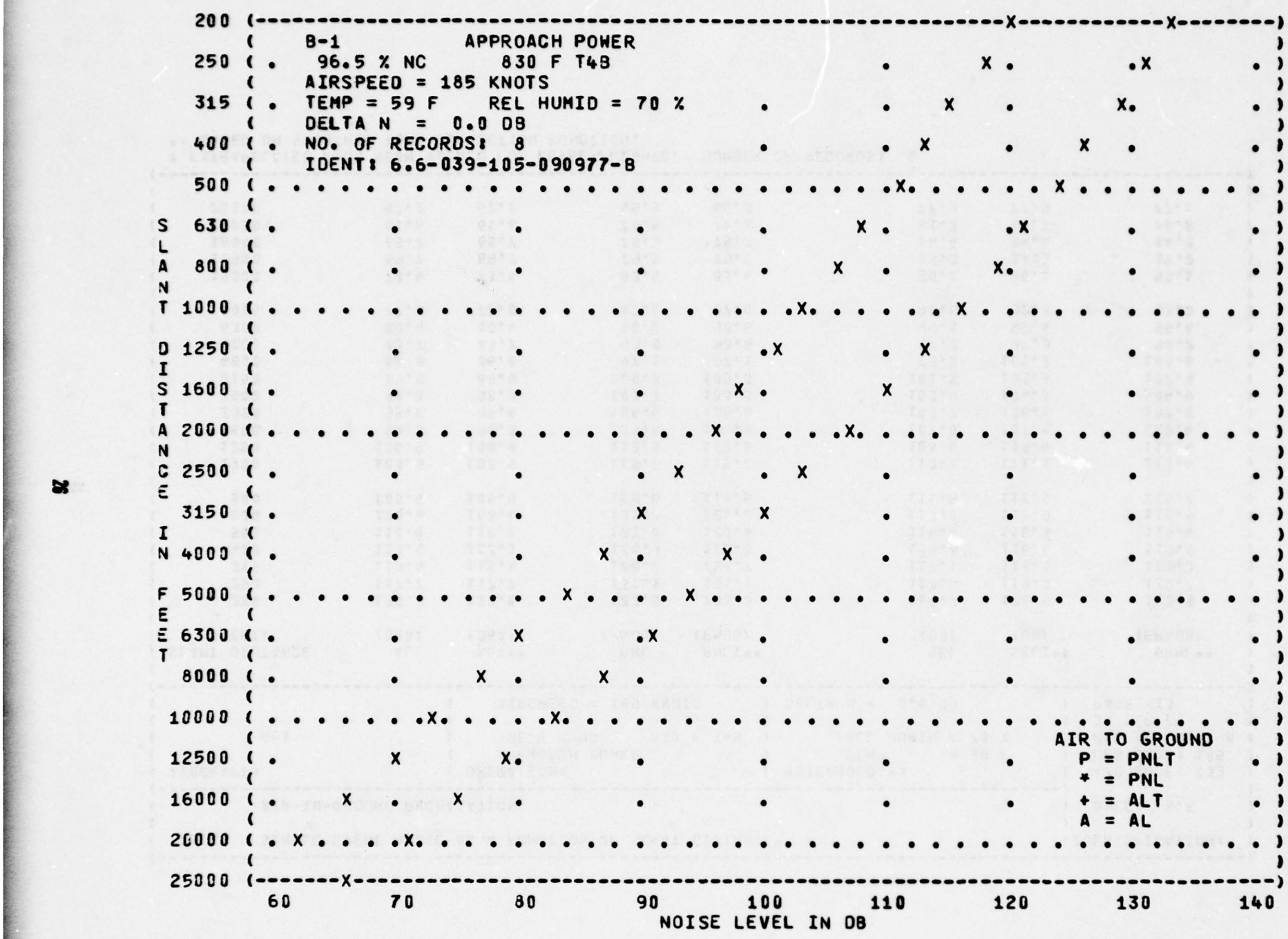
OPERATION:
APPROACH POWER
96.5 % NC 830 F T48
AIRSPEED = 185 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 039
OPS CODE: 105
PROFILE VER: 8
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PAGE I3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	120.0	120.0	133.3	133.3	119.7	120.5	123.9
250	117.7	117.7	131.1	131.1	118.4	119.3	122.7
315	115.4	115.4	128.7	128.7	117.1	118.0	121.3
400	113.1	113.1	126.3	126.3	115.8	116.6	119.9
500	110.8	110.8	123.8	123.8	114.4	115.3	118.4
630	108.4	108.4	121.2	121.2	113.0	113.9	116.9
800	105.9	105.9	118.6	118.6	111.6	112.5	115.2
1000	103.5	103.5	115.7	115.7	110.1	111.0	113.4
1250	100.9	100.9	112.8	112.8	108.6	109.4	111.4
1600	98.3	98.3	109.8	109.8	107.0	107.8	109.4
2000	95.6	95.6	106.6	106.6	105.2	106.1	107.2
2500	92.8	92.8	103.3	103.3	103.4	104.3	104.9
3150	89.9	89.9	100.3	100.3	101.5	102.4	102.9
4000	86.8	86.8	97.1	97.1	99.5	100.2	100.6
5000	83.7	83.7	93.9	93.9	97.3	97.9	98.2
6300	80.4	80.4	90.6	90.6	95.1	95.4	95.6
8000	77.0	77.0	87.0	87.0	92.6	92.8	93.0
10000	73.4	73.4	83.4	83.4	90.1	90.1	90.1
12500	69.7	69.7	79.5	79.5	87.3	87.3	87.2
16000	65.7	65.7	75.3	75.3	84.4	84.4	84.0
20000	61.6	61.6	70.8	70.8	81.3	81.3	80.6
25000	57.2	57.2	66.3	66.3	77.9	77.9	77.1

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-1 APPROACH POWER
96.5 % NC 830 F T48
AIRSPEED = 185 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-039-105-090977-B
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

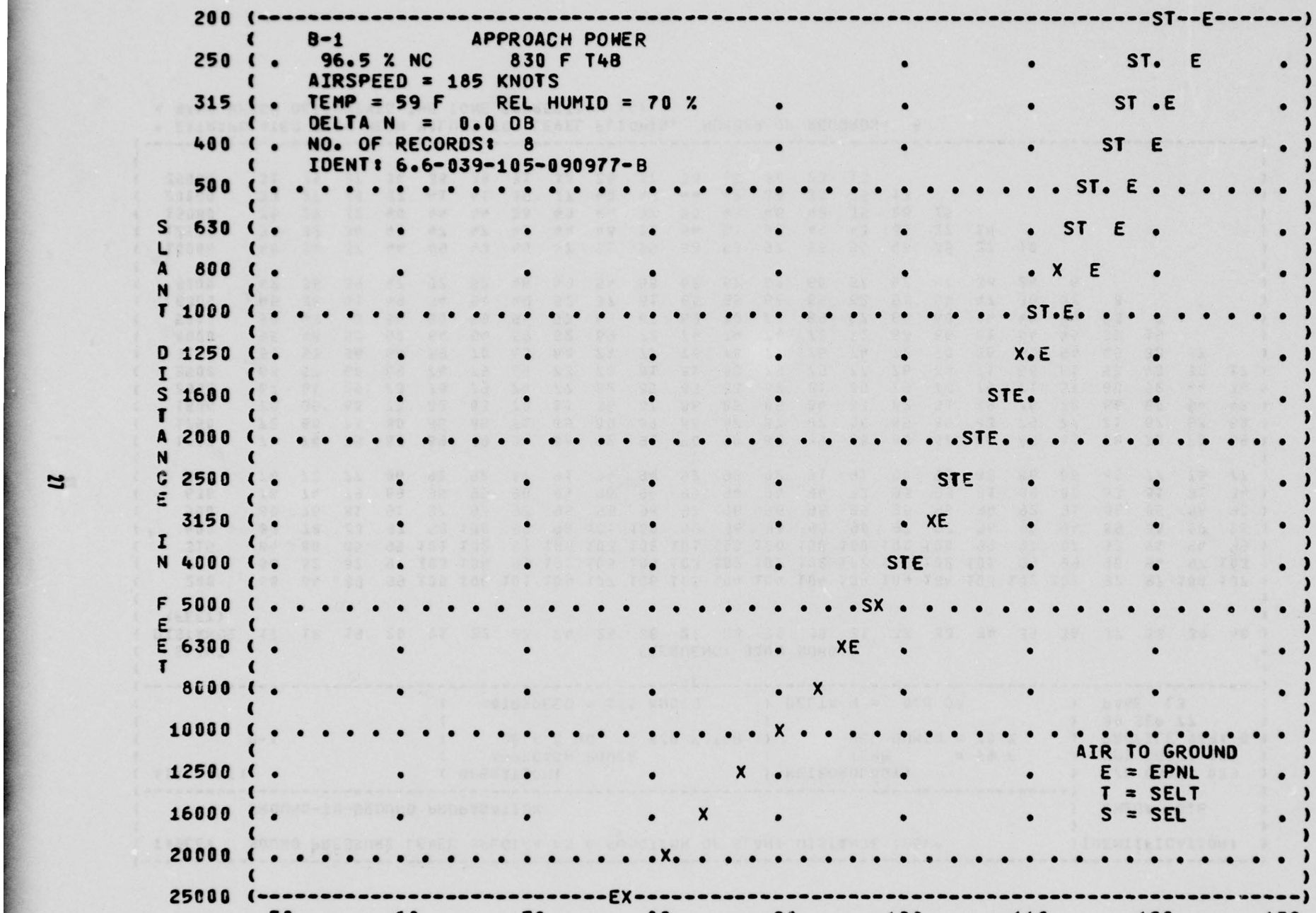

B-1 APPROACH POWER
96.5 % NC 830 F T48
AIRSPEED = 185 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-039-105-090977-B
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 039
OPS CODE: 105
PROFILE VER: B
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PAGE L3

AIRCRAFT: B-1

OPERATION:
APPROACH POWER
96.5 % NC 830 F T4B
AIRSPEED = 185 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %

DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	88	84	89	99	105	106	101	104	107	106	105	104	104	104	104	104	104	103	102	102	97	97	100	107
250	86	82	87	97	103	104	99	102	105	104	103	102	102	102	102	102	102	101	99	99	95	94	97	103
315	84	80	85	95	101	102	97	100	103	102	101	100	100	100	100	100	100	99	97	97	92	91	94	99
400	82	78	83	93	99	100	95	98	101	100	99	98	98	98	98	97	97	96	94	94	89	88	90	95
500	80	76	81	91	97	98	93	96	99	98	97	96	96	96	95	95	95	94	92	91	86	85	86	90
630	78	74	79	89	95	95	90	94	96	96	95	94	94	94	93	93	93	91	89	88	83	81	81	84
800	76	72	77	86	92	92	87	91	94	94	92	92	92	91	91	90	90	89	86	85	80	77	76	77
1000	74	70	75	83	89	89	84	88	92	91	90	90	89	89	88	88	87	86	83	81	76	72	70	69
1250	72	68	72	80	86	86	81	85	89	89	88	87	87	87	86	85	85	83	79	77	71	67	63	60
1600	70	65	68	77	82	83	78	81	86	87	86	85	85	84	83	82	81	79	76	72	66	60	54	48
2000	67	61	65	73	78	79	74	77	82	85	83	83	82	81	80	79	78	75	71	67	60	52	44	34
2500	63	57	60	69	74	75	69	73	78	81	81	80	79	79	77	76	74	71	66	61	53	43	32	17
3150	59	53	56	64	69	70	65	68	74	77	78	78	77	76	74	72	70	66	60	54	45	33	17	
4000	55	48	50	58	64	64	59	62	69	72	74	74	74	72	71	68	66	61	54	45	35	19		
5000	50	43	46	54	59	59	54	57	63	67	69	70	70	69	67	64	60	54	46	34	23	3		
6300	45	38	41	49	54	54	49	52	57	61	65	65	66	65	62	58	54	47	36	22	8			
8000	42	36	39	47	52	52	46	49	54	58	62	62	62	60	57	52	47	38	24	6				
10000	40	34	37	44	49	49	44	47	51	55	58	58	57	55	51	45	38	27	10					
12500	38	32	34	42	47	47	41	44	48	51	54	53	52	49	43	36	27	14						
16000	36	29	32	40	44	44	38	40	44	47	50	48	46	42	35	26	15							
20000	33	27	29	37	41	41	35	37	40	43	44	42	38	33	25	13								
25000	31	25	27	34	38	38	31	33	36	37	38	35	30	23	13									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
B-1

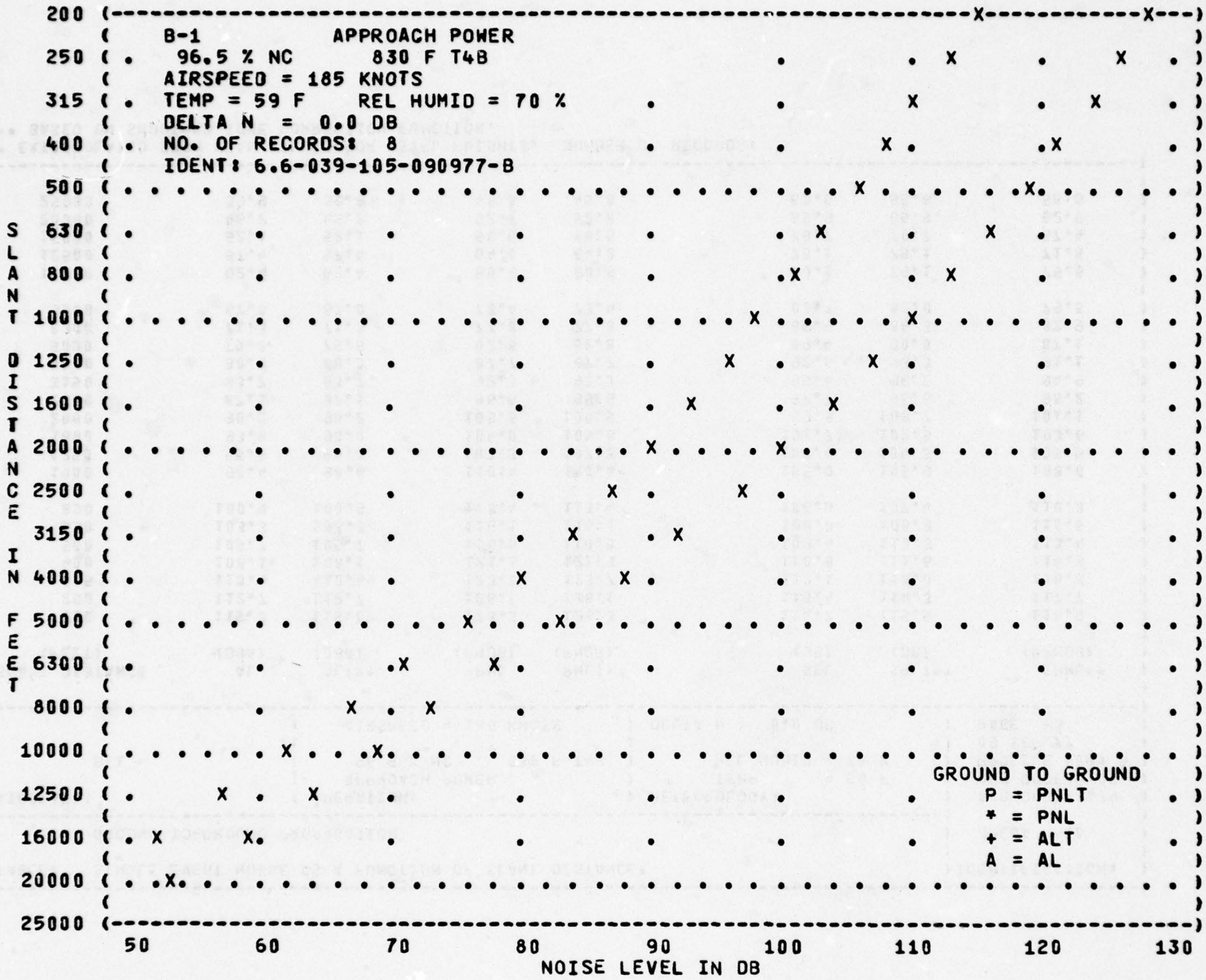
OPERATION:
APPROACH POWER
96.5 % NC 830 F T4B
AIRSPEED = 185 KNOTS

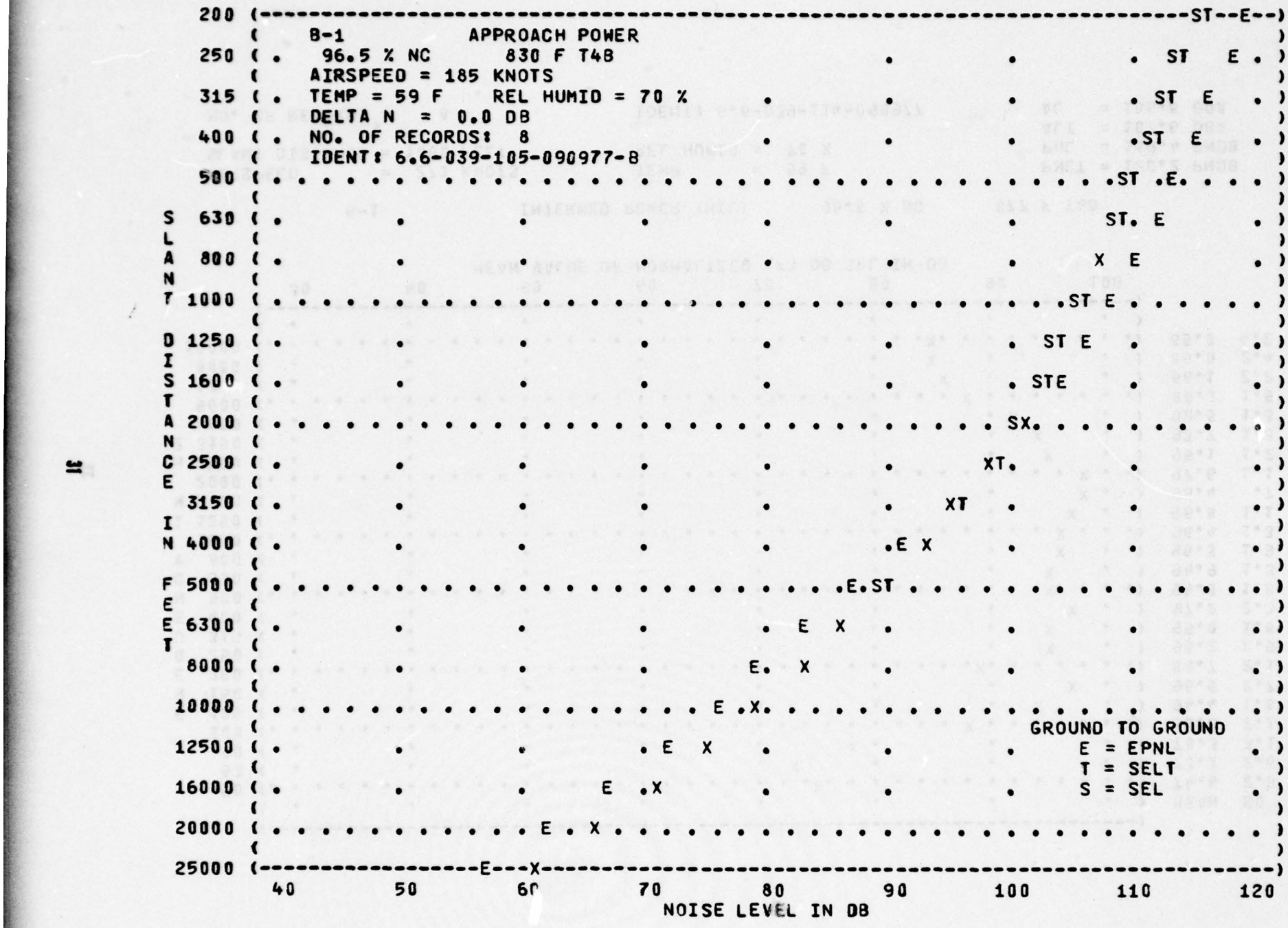
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

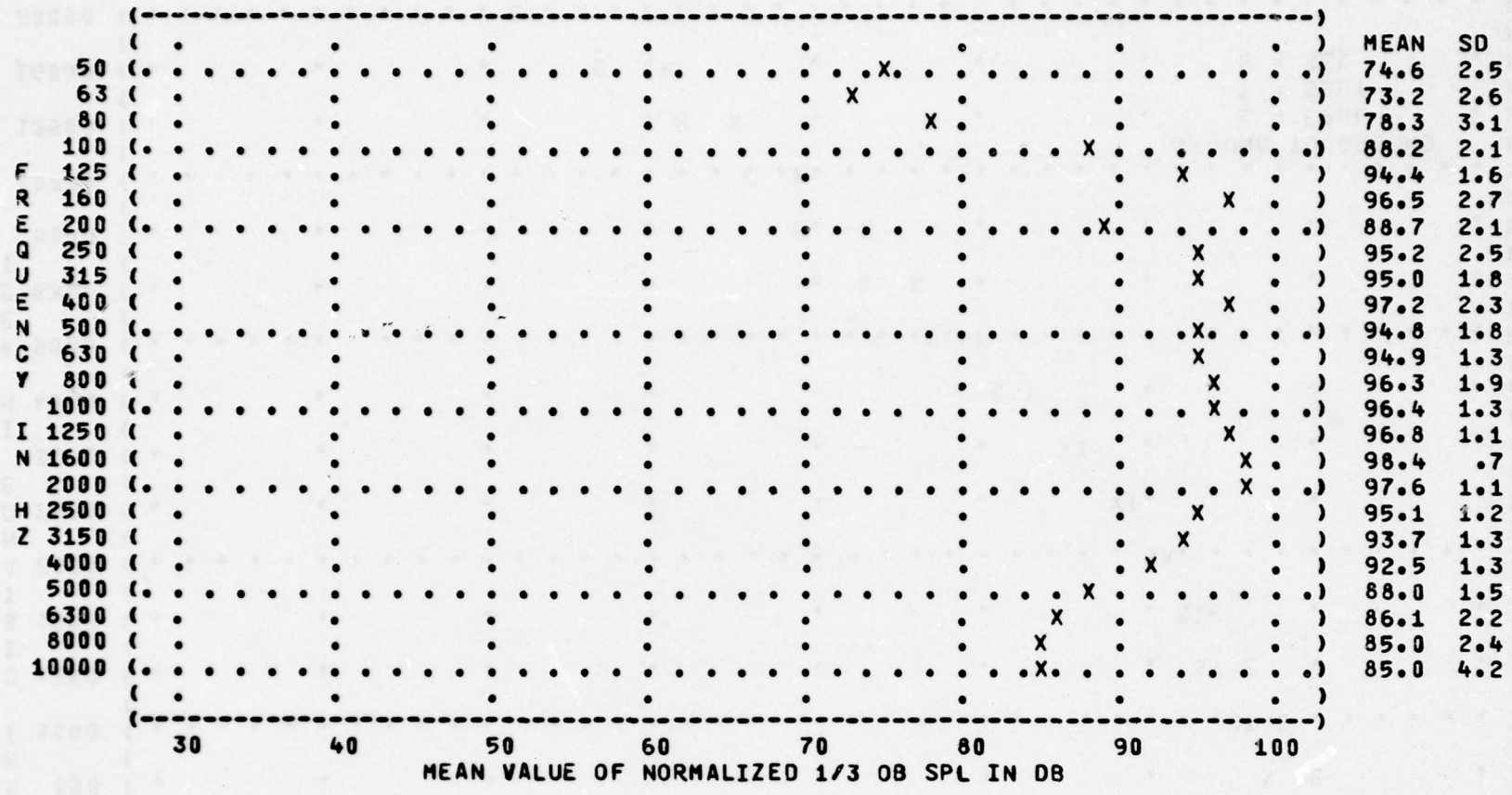
A/C CODE: 039
OPS CODE: 105
PROFILE VER: B
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PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	115.0	115.0	128.3	128.3	114.7	115.5	118.9
250	112.7	112.7	126.1	126.1	113.4	114.3	117.7
315	110.4	110.4	123.7	123.7	112.1	113.0	116.3
400	108.1	108.1	121.3	121.3	110.8	111.6	114.9
500	105.7	105.7	118.8	118.8	109.4	110.3	113.4
630	103.3	103.3	116.1	116.1	108.0	108.9	111.8
800	100.9	100.9	113.4	113.4	106.6	107.4	110.0
1000	98.4	98.4	110.4	110.4	105.0	105.9	108.0
1250	95.8	95.8	107.3	107.3	103.4	104.3	105.9
1600	93.0	93.0	104.0	104.0	101.7	102.5	103.6
2000	90.2	90.2	100.5	100.5	99.8	100.7	101.1
2500	87.1	87.1	96.6	96.6	97.7	98.6	98.2
3150	83.7	83.7	92.3	92.3	95.4	96.2	94.9
4000	80.0	80.0	87.7	87.7	92.6	93.3	91.1
5000	75.8	75.8	82.8	82.8	89.4	90.0	87.1
6300	71.3	71.3	77.8	77.8	85.9	86.3	82.9
8000	67.0	67.0	73.4	73.4	82.7	82.8	79.3
10000	62.4	62.4	68.9	68.9	79.1	79.1	75.6
12500	57.4	57.4	64.0	64.0	75.1	75.1	71.8
16000	52.1	52.1	58.6	58.6	70.7	70.7	67.4
20000	46.2	46.2	52.7	52.7	65.9	65.9	62.5
25000	39.9	39.9	45.8	45.8	60.6	60.6	56.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-1 APPROACH POWER
96.5 % NC 830 F T4B
AIRSPEED = 185 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-039-105-090977-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


B-1 APPROACH POWER
96.5 % NC 830 F T48
AIRSPEED = 185 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-039-105-090977-B
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB



B-1 INTERMED POWER (MIL) 98.5 % NC 877 F T48

AIRSPEED = 270 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-039-114-090977

PNLT = 120.2 PNDB
PNL = 119.4 PNDB
ALT = 107.6 DBA
AL = 106.8 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-1

OPERATION:
INTERMED POWER (MIL)
98.5 % NC 877 F T4B
AIRSPEED = 270 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 039
OPS CODE: 114
PROFILE VER: B
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SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	89	87	92	102	109	111	103	109	109	112	109	110	111	112	112	114	114	112	112	113	109	111	114	122
250	87	85	90	100	107	109	101	107	107	110	107	108	109	110	110	112	112	110	110	110	107	108	111	118
315	85	83	88	98	105	107	99	105	105	108	105	106	107	107	108	110	110	108	108	108	104	105	108	114
400	83	81	86	96	103	105	97	103	103	106	103	103	105	105	106	108	107	106	105	105	102	102	105	110
500	81	79	84	94	101	103	95	101	101	104	101	101	103	103	104	106	105	103	103	102	99	99	101	105
630	79	77	82	92	98	101	93	99	99	101	99	99	101	101	102	103	103	101	100	99	95	95	96	99
800	77	75	80	90	96	99	91	97	97	99	97	97	99	99	99	101	100	98	97	96	92	91	91	93
1000	75	73	78	88	94	97<	89	95	95	97	95	95	96	96	97	98	98	95	94	92	88	86	85	85
1250	73	71	76	86	92	94	87	93	93	95	93	93	94	94	94	96	95	92	90	88	84	81	78	76
1600	71	69	74	84	90	92	85	91	91	93	90	90	92	91	92	93	92	89	86	84	79	74	70	64
2000	69	67	72	82	88	90	82	89	89	91	88	88	89	89	89	90	88	85	82	79	73	67	60	51
2500	66	65	70	80	86	88	80	87	86	88	86	85	86	86	86	87	85	81	77	73	66	58	48	34
3150	64	63	68	78	84	86	78	84	84	86	83	83	84	83	83	83	81	76	71	65	58	47	33	14
4000	62	61	66	76	82	84	76	82	82	83	81	80	81	80	79	79	76	71	65	57	48	35	16	
5000	60	59	64	74	80	82	74	80	79	81	78	77	77	76	75	74	71	64	57	47	36	19		
6300	58	57	62	71	77	79	71	77	77	78	75	74	74	72	71	69	65	57	48	34	22			
8000	56	55	60	69	75	77	69	75	74	75	72	70	70	68	65	63	58	48	36	19	5			
10000	54	52	57	67	73	74	66	72	71	72	68	66	65	63	60	56	49	38	23	1				
12500	52	50	55	65	70	72	63	69	68	68	64	62	60	57	53	48	39	25	6					
16000	50	48	53	62	68	69	60	66	64	64	60	57	54	50	44	38	27	9						
20000	47	45	50	59	65	66	57	62	60	60	54	51	47	41	34	25	12							
25000	45	43	48	57	62	63	53	58	56	55	49	44	39	32	22	11								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
B-1

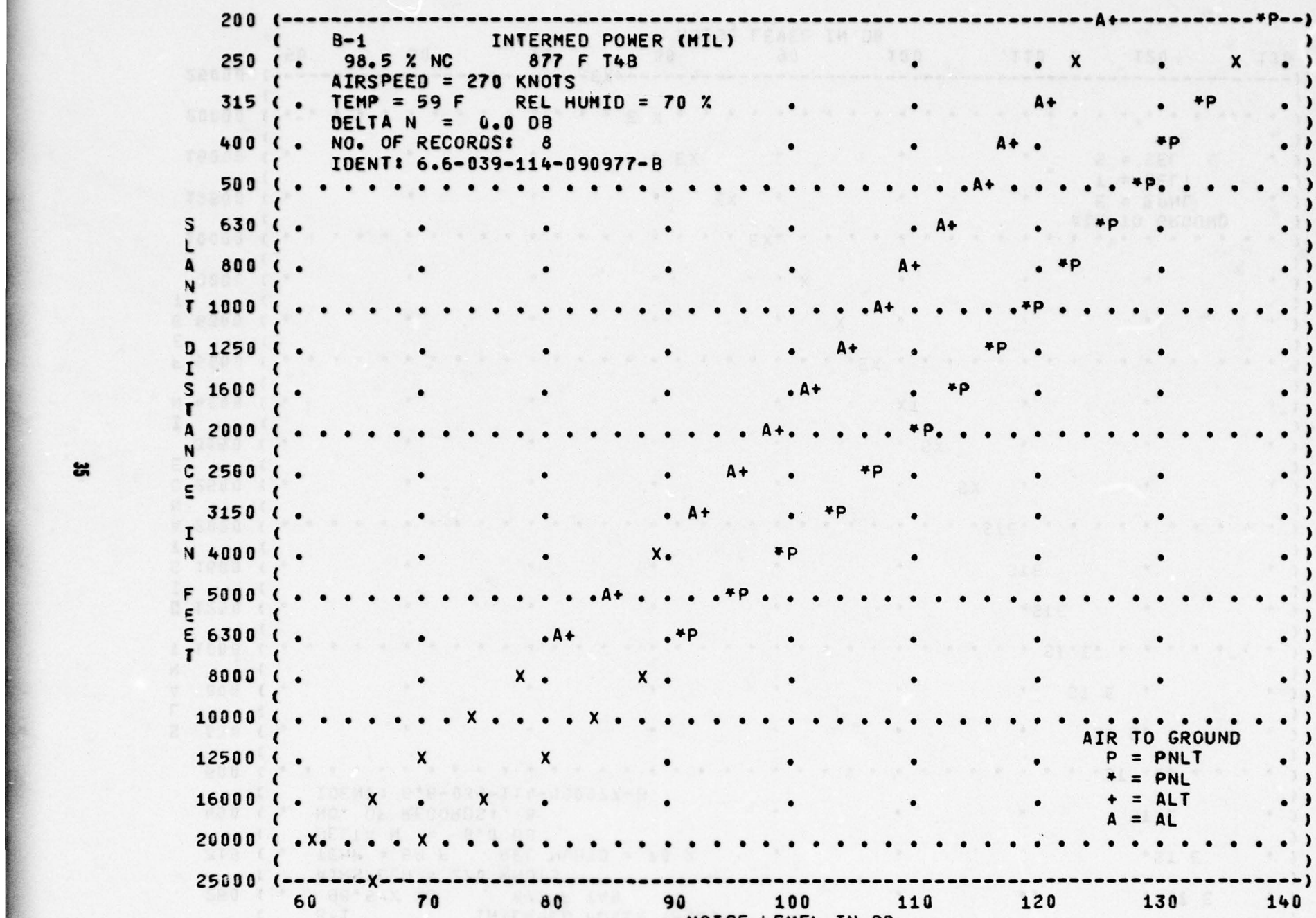
OPERATION:
INTERMED POWER (MIL)
98.5 % NC 877 F T48
AIRSPEED = 270 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 039
OPS CODE: 114
PROFILE VER: B
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PAGE I4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	125.1	126.0	138.1	138.9	123.7	124.7	126.8
250	122.6	123.4	135.5	136.3	122.1	123.1	125.2
315	120.0	120.8	133.0	133.9	120.5	121.5	123.7
400	117.4	118.2	130.5	131.3	118.9	119.9	122.2
500	114.8	115.6	127.8	128.6	117.3	118.3	120.5
630	112.1	112.9	125.1	125.9	115.6	116.6	118.8
800	109.5	110.3	122.3	123.1	114.0	115.0	117.0
1000	106.8	107.6	119.4	120.2	112.3	113.3	115.1
1250	104.0	104.9	116.4	117.2	110.6	111.6	113.1
1600	101.2	102.0	113.2	114.1	108.7	109.7	111.0
2000	98.2	99.1	109.9	110.7	106.8	107.8	108.6
2500	95.2	96.0	106.4	107.2	104.7	105.7	106.1
3150	92.0	92.8	102.8	103.6	102.5	103.5	103.5
4000	88.6	89.3	98.9	99.6	100.1	100.9	100.5
5000	85.1	85.6	95.1	95.5	97.6	98.2	97.4
6300	81.5	81.8	91.4	91.8	95.0	95.4	94.5
8000	77.7	77.8	87.7	87.8	92.2	92.4	91.6
10000	73.8	73.8	83.7	83.7	89.3	89.3	88.5
12500	69.8	69.8	79.6	79.6	86.3	86.3	85.3
16000	65.6	65.6	75.2	75.2	83.1	83.1	81.9
20000	61.3	61.3	70.4	70.4	79.8	79.8	78.1
25000	56.8	56.8	65.8	65.8	76.3	76.3	74.5

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-1 INTERMED POWER (MIL)
98.5 % NC 877 F T4B
AIRSPEED = 270 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-039-114-090977-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2560
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

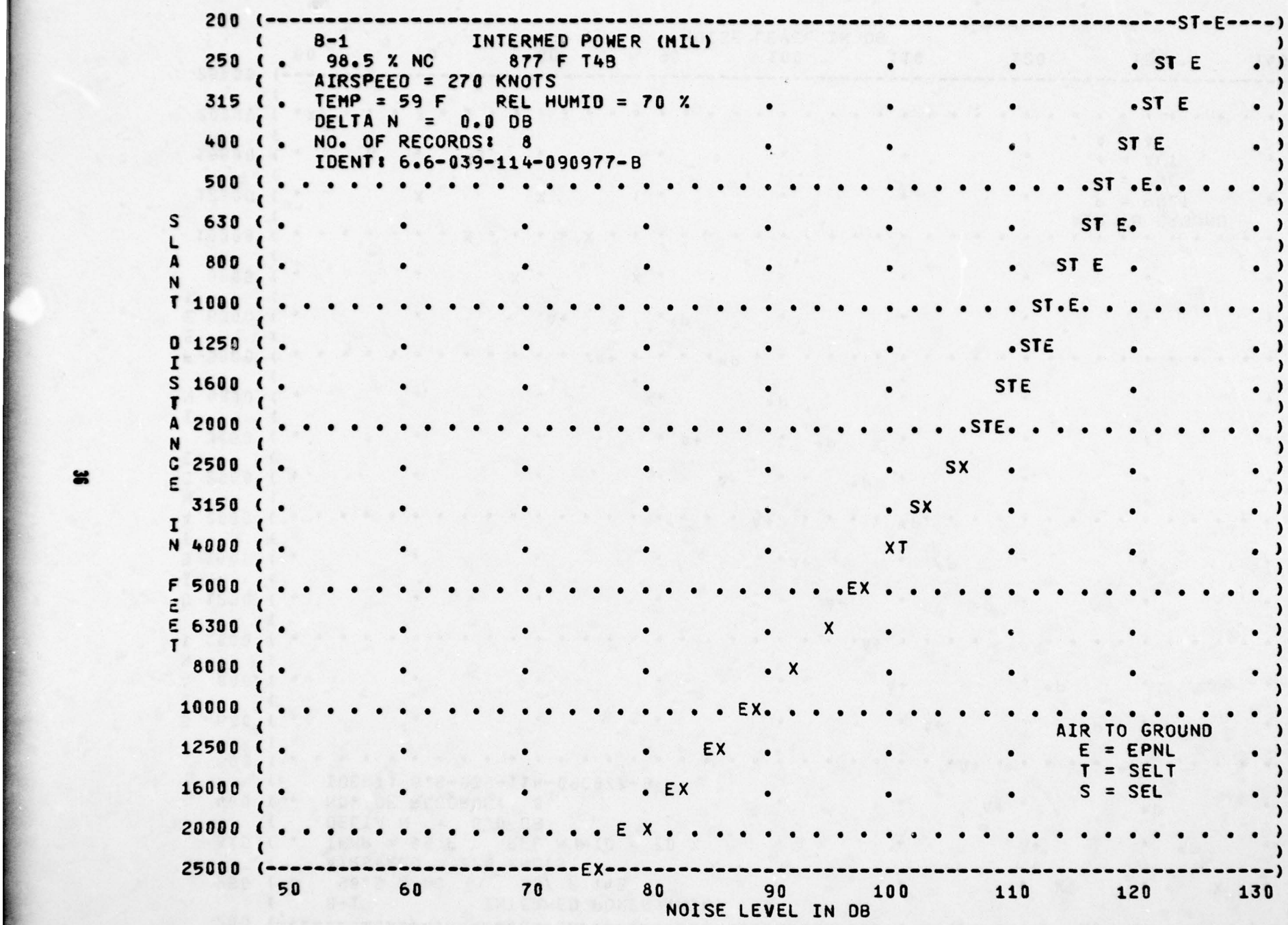

B-1 INTERMED POWER (MIL)
98.5 % NC 877 F T4B
AIRSPEED = 270 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-039-114-090977-B
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-1

OPERATION:
INTERMED POWER (MIL)
98.5 % NC 877 F T4B
AIRSPEED = 270 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 039
OPS CODE: 114
PROFILE VER: B
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PAGE L4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	84	82	87	97	104	106	98	104	104	107	104	105	106	107	107	109	109	107	107	108	104	106	109	117
250	82	80	85	95	102	104	96	102	102	105	102	103	104	105	105	107	107	105	105	105	102	103	106	113
315	80	78	83	93	100	102	94	100	100	103	100	101	102	102	103	105	105	103	103	103	99	100	103	109
400	78	76	81	91	98	99	92	98	98	101	98	98	100	100	101	103	102	101	100	100	97	97	100	105
500	76	74	79	89	95	97	89	96	96	99	96	96	98	98	99	101	100	98	98	97	94	94	96	100
630	74	72	77	87	93	94	87	94	94	96	94	94	96	96	97	98	98	96	95	94	90	90	91	94
800	72	70	75	85	90	92	84	91	92	94	92	92	94	94	94	96	95	93	92	91	87	86	86	88
1000	70	68	73	82	87	89<	81	88	90	92	90	90	91	91	92	93	93	90	89	87	83	81	80	80
1250	68	66	70	79	84	86	78	85	87	90	88	88	89	89	89	91	90	87	85	83	79	76	73	71
1600	66	63	67	75	81	82	74	81	84	88	85	85	87	86	87	88	87	84	81	79	74	69	65	59
2000	62	59	63	72	77	78	70	77	80	86	83	83	84	84	84	85	83	80	77	74	68	62	55	46
2500	59	56	59	67	72	74	66	73	76	82	81	80	81	81	81	82	80	76	72	68	61	53	43	29
3150	55	51	54	62	68	69	61	68	72	78	77	78	79	78	78	78	76	71	66	60	53	42	28	9
4000	50	46	49	57	62	63	55	62	66	73	73	74	76	75	74	74	71	66	60	52	43	30	11	
5000	45	41	44	52	57	59	51	57	60	68	69	70	72	71	70	69	66	59	52	42	31	14		
6300	40	37	40	47	52	54	46	52	55	62	65	66	68	67	66	64	60	52	43	29	17			
8000	38	35	38	45	50	51	43	50	52	59	62	62	64	63	60	58	53	43	31	14				
10000	36	32	35	43	48	49	41	47	49	56	58	58	59	58	55	51	44	33	18					
12500	34	30	33	41	45	46	38	44	46	52	54	54	54	52	48	43	34	20	1					
16000	32	28	31	38	43	43	35	41	42	48	50	49	48	45	39	33	22	4						
20000	29	25	28	35	40	40	32	37	38	44	44	43	41	36	29	20	7							
25000	27	23	26	33	37	37	28	33	34	39	39	36	33	27	17	6								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
B-1

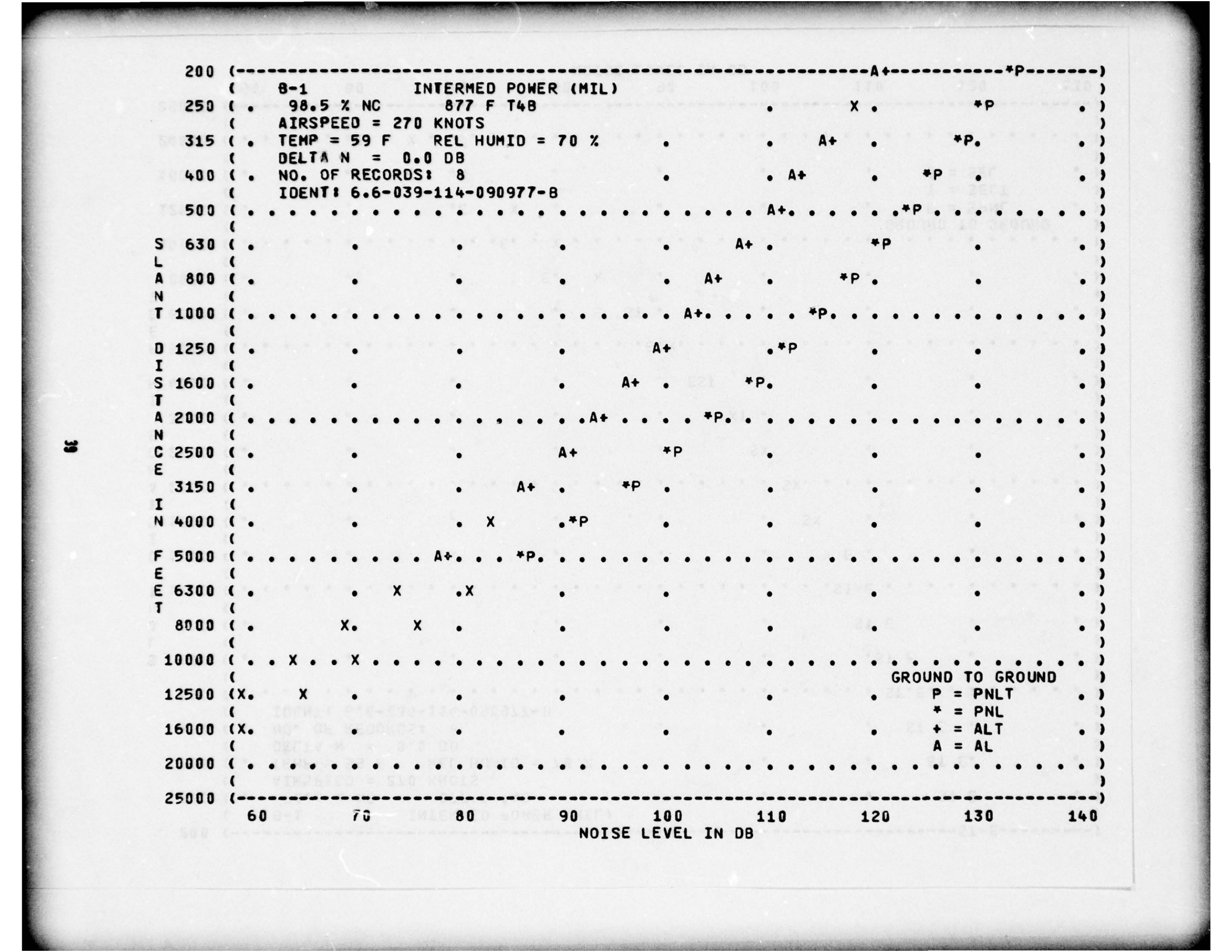
OPERATION:
INTERMED POWER (MIL)
98.5 % NC 877 F T4B
AIRSPEED = 270 KNOTS

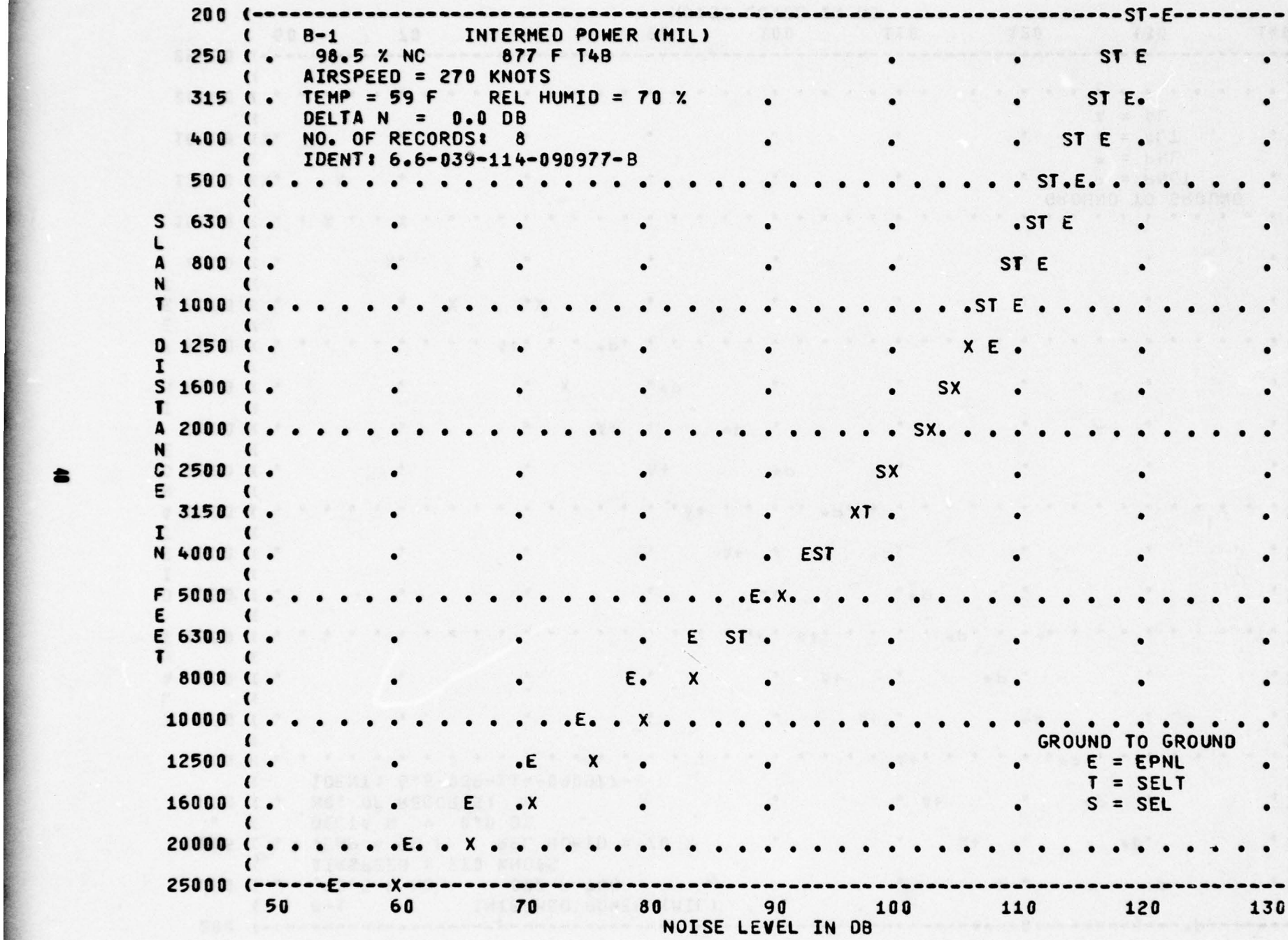
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 039
OPS CODE: 114
PROFILE VER: B
09 SEP 77
PAGE M4

SLANT DISTANCE (FEET)	AL (OBA)	ALT** (OBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	120.1	120.9	133.1	133.9	118.7	119.6	121.8
250	117.6	118.4	130.5	131.3	117.1	118.1	120.2
315	115.0	115.8	128.0	128.8	115.5	116.5	118.7
400	112.4	113.2	125.5	126.2	113.9	114.9	117.1
500	109.8	110.5	122.8	123.5	112.3	113.2	115.4
630	107.1	107.9	120.0	120.8	110.6	111.6	113.7
800	104.4	105.2	117.2	117.9	109.0	109.9	111.8
1000	101.7	102.5	114.2	115.0	107.3	108.2	109.9
1250	99.0	99.7	111.1	111.8	105.5	106.5	107.7
1600	96.1	96.9	107.7	108.5	103.6	104.6	105.4
2000	93.1	93.9	104.1	104.9	101.6	102.6	102.8
2500	89.9	90.6	100.2	101.0	99.4	100.4	99.9
3150	86.4	87.2	96.0	96.8	96.9	97.9	96.7
4000	82.6	83.2	91.4	92.1	94.1	94.9	92.9
5000	78.4	78.8	86.5	86.9	90.9	91.5	88.8
6300	73.8	74.1	81.1	81.4	87.3	87.7	84.1
8000	69.2	69.4	75.6	75.7	83.8	83.9	79.5
10000	64.3	64.3	70.4	70.4	79.8	79.8	75.1
12500	59.0	59.0	64.9	64.9	75.6	75.6	70.6
16000	53.4	53.4	59.3	59.3	70.9	70.9	66.0
20000	47.2	47.2	53.2	53.2	65.8	65.8	60.9
25000	40.7	40.7	46.3	46.3	60.2	60.2	55.0

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


8-1 INTERMED POWER (MIL)
98.5 % NC 877 F T48
AIRSPEED = 270 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-039-114-090977-8
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB


B-1 INTERMED POWER (MIL)
98.5 % NC 877 F T4B
AIRSPEED = 270 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-039-114-090977-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL

USAF B-1 AIRCRAFT B-1 AIRCRAFT B-1 AIRCRAFT B-1 AIRCRAFT B-1 AIRCRAFT USAF

NOISE PRODUCED ON THE GROUND BY

B-1 AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 76-039-001
AIRCRAFT CODE: 039
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING		PAGE
IDLE	- 70.5% RPM, 848 C EGT.	42 - 47
INTERMED (MIL)	- 97.2% RPM, 1317 C EGT	48 - 53
AFTERBURNER	- 97.6% RPM, 1310 C EGT	54 - 59

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
- NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
- PERCEIVED NOISE LEVEL
- TONE-CORRECTED, PERCEIVED NOISE LEVEL
- A-WEIGHTED OVERALL SOUND LEVEL
- TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

A E R O S P A C E M E D I C A L R E S E A R C H L A B O R A T O R Y
W R I G H T - P A T T E R S O N A I R F O R C E B A S E , O H I O

USAF B-1 AIRCRAFT B-1 AIRCRAFT B-1 AIRCRAFT B-1 AIRCRAFT B-1 AIRCRAFT USAF

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 76-039-001
RUN 01
AIRCRAFT CODE 039
OPERATION CODE 00413
PROFILE VERSION A
19 JUL 76
PAGE C1

NOISE SOURCE/SUBJECT:
B-1 AIRCRAFT
ENG. YF101-GE-100
GROUND RUNUP

OPERATION:
IDLE 70.5% RPM
SINGLE ENGINE
GROUND RUNUP
50-80 INTERPOLATED

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	64	64	66	67	67	68	68	69	69	70	69	68	70	70	70	70	67	64<	44
63	66<	69	66<	68<	67<	67<	67<	68<	68<	69	68<	68<	69	69<	69<	69<	66<	64<	44
80	67	67	66	70	66	66	65	66	66	66	67	67	67	67	69	69	65	64<	44
100	66	67	66	67	67	68	69	69	70	69	70	71	72	73	72	73	71	64	44
125	82	81	79	80	79	79	78	77	76	75	75	76	78	78	78	75	76	69	49
160	74	73	70	72	71	72	73	73	74	75	76	78	80	81	81	77	79	72	52
200	71	71	69	70	69	70	71	73	74	75	76	77	79	82	83	77	78	72	52
250	68	70	68	68	66	67	68	68	69	69	70	74	76	78	79	78	74	69	49
315	71	71	69	69	68	68	67	67	66	66	66	67	69	70	71	69	66	60	40
400	71	71	69	69	69	69	67	66	64	63	64	66	67	71	71	69	67	61	41
500	71	73	73	73	70	71	71	71	71	70	71	70	72	72	72	71	70	64	44
630	68	70	68	68	67	67	66	66	65	64	65	66	69	71	70	68	65	59	39
800	69	70	69	68	66	65	65	64	64	63	65	67	68	69	70	69	65	60	40
1000	71	72	71	69	67	66	64	64	62	60	62	64	66	68	69	67	63	58	38
1250	71	73	71	70	69	69	69	69	69	68	67	66	67	68	70	67	64	60	40
1600	73	76	73	72	71	69	68	66	64	62	62	63	67	68	70	67	64	59	39
2000	80	82	79	78	76	73	70	67	64	61	62	63	66	68	70	67	65	60	40
2500	89	90	87	87	85	82	79	76	74	71	72	72	73	75	77	76	74	68	48
3150	79	81	79	78	77	74	71	67	64	61	61	63	66	67	68	67	65	59	39
4000	85	84	83	81	80	78	75	72	69	65	67	71	74	74	76	74	71	65	45
5000	82	84	83	81	81	78	74	72	68	63	65	70	74	75	77	75	71	64	44
6300	74	75	74	73	72	69	65	64	61	57	59	64	68	67	68	66	63	56	36
8000	72	74	72	72	71	68	65	63	60	57	59	64	68	68	69	66	63	55	35
10000	66	66	66	64	64	61	59	56	54	51	53	58	62	62	63	61	57	49	29
OVERALL	93	94	91	91	89	87	85	84	83	83	83	85	87	88	89	86	85	79	59

XXX< = EXTRAPOLATED OR INTERPOLATED SPL
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNOB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-1 AIRCRAFT
ENG. YF101-GE-100
GROUND RUNUP

OPERATION:
IDLE 70.5% RPM
SINGLE ENGINE
GROUND RUNUP
50-80 INTERPOLATED

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-039-001
RUN 01
AIRCRAFT CODE 039
OPERATION CODE 00413
PROFILE VERSION A
19 JUL 76
PAGE D1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	109.5	110.5	108.1	107.7	106.2	103.6	101.2	98.9	97.1	94.9	95.6	96.9	99.8	100.6	102.0	100.3	97.9	91.7	71.1
250	107.2	108.3	105.8	105.4	103.9	101.3	98.9	96.7	94.9	92.6	93.4	94.6	97.5	98.3	99.6	98.1	95.7	89.5	68.8
315	104.9	105.9	103.5	103.1	101.5	99.0	96.6	94.4	92.6	90.3	91.1	92.3	95.1	95.9	97.2	95.7	93.4	87.1	66.3
400	102.5	103.5	101.1	100.7	99.2	96.6	94.2	91.9	90.2	87.9	88.7	89.9	92.5	93.4	94.7	93.3	91.0	84.7	63.9
500	100.0	101.0	98.5	98.1	96.6	94.1	91.7	89.4	87.7	85.4	86.2	87.4	89.9	90.8	92.2	90.8	88.4	82.2	61.1
630	97.3	98.4	95.9	95.5	94.0	91.4	89.0	86.8	85.0	82.8	83.5	84.7	87.0	88.2	89.6	88.1	85.8	79.5	58.3
800	94.5	95.6	93.1	92.7	91.2	88.6	86.2	84.0	82.2	80.0	80.7	81.9	84.1	85.3	86.7	85.3	82.9	76.7	55.2
1000	91.6	92.6	90.1	89.7	88.2	85.7	83.2	81.0	79.3	77.1	77.8	78.9	81.1	82.3	83.7	82.3	79.9	73.7	52.0
1250	88.4	89.4	86.9	86.5	85.0	82.4	80.0	77.8	76.1	73.9	74.6	75.6	77.8	79.1	80.5	79.1	76.7	70.5	48.3
1600	84.9	86.0	83.4	83.1	81.5	79.0	76.6	74.4	72.7	70.5	71.2	72.2	74.3	75.6	77.0	75.7	73.3	67.0	44.0
2000	81.1	82.2	79.6	79.3	77.7	75.2	72.8	70.6	69.0	66.8	67.4	68.3	70.5	71.8	73.2	71.8	69.4	63.2	38.8
2500	76.9	78.0	75.4	75.0	73.4	70.9	68.6	66.4	64.7	62.4	63.2	64.1	66.2	67.5	69.0	67.6	65.2	58.7	32.2
3150	72.2	73.2	70.6	70.3	68.7	66.2	63.8	61.6	59.9	57.7	58.3	59.3	61.4	62.8	64.2	62.8	60.4	53.7	22.0
4000	66.8	67.9	65.3	65.0	63.3	60.8	58.4	56.2	54.4	52.1	52.8	53.7	55.9	57.5	58.9	57.5	54.8	47.8	12.5
5000	60.7	61.9	59.2	58.8	56.9	54.5	52.1	49.9	48.1	46.1	46.8	47.3	49.9	51.2	52.9	51.2	48.4	40.5	3.0
6300	53.5	54.7	52.0	51.6	49.8	47.0	44.3	41.8	40.5	39.3	40.2	40.8	43.5	44.8	45.4	43.4	40.9	32.1	
8000	45.5	46.8	43.8	43.3	41.1	38.2	36.7	35.9	35.1	33.6	34.4	34.9	38.4	39.8	40.4	38.2	35.2	24.0	
10000	35.1	36.7	35.1	34.7	31.8	31.2	30.0	28.7	27.4	25.7	27.3	28.1	30.7	33.1	33.8	31.2	27.2	12.9	
12500	24.5	29.0	26.0	26.0	21.1	20.8	19.8	19.8	19.7	17.8	19.7	19.6	23.1	25.5	25.9	22.9	18.4	1.7	
16000	11.3	16.1	14.5	14.9	10.1	11.0	11.0	11.0	11.0	10.1	11.0	9.6	13.1	15.1	14.6	11.9	9.6		
20000		3.2	3.0	3.7		1.1	2.2	2.2	2.3	2.4	2.3		3.0	4.3	3.3	.8	.7		
25000																			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-1 AIRCRAFT
ENG. YF101-GE-100
GROUND RUNUP

OPERATION:
IDLE 70.5% RPM
SINGLE ENGINE
GROUND RUNUP
50-80 INTERPOLATED

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-039-001
RUN 01
AIRCRAFT CODE 039
OPERATION CODE 00413
PROFILE VERSION A
19 JUL 76
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	112.7	113.4	110.9	110.6	109.0	106.4	104.0	101.9	99.9	98.3	98.5	99.7	102.2	103.0	104.6	103.4	101.0	94.4	73.8
250	110.5	111.1	108.6	108.4	106.8	104.2	101.7	99.7	97.7	96.1	96.3	97.5	99.9	100.7	102.3	101.1	98.7	92.2	71.5
315	108.2	108.8	106.3	106.1	104.4	101.8	99.4	97.3	95.3	93.8	93.9	95.2	97.5	98.3	99.8	98.8	96.4	89.8	69.0
400	105.8	106.4	103.9	103.6	102.0	99.4	97.0	94.9	92.9	91.4	91.5	92.7	95.0	95.8	97.4	96.4	94.0	87.4	66.6
500	103.3	103.9	101.3	101.1	99.5	96.9	94.5	92.4	90.4	88.9	89.0	90.2	92.3	93.3	94.9	93.9	91.5	84.9	63.8
630	100.6	101.3	98.7	98.5	96.8	94.3	91.8	89.8	87.8	86.2	86.4	87.5	89.4	90.6	92.2	91.2	88.8	82.2	61.0
800	97.8	98.5	95.9	95.7	94.0	91.5	89.0	87.0	85.0	83.5	83.6	84.7	86.5	87.8	89.4	88.4	86.0	79.4	57.9
1000	94.9	95.5	92.9	92.7	91.0	88.5	86.1	84.0	82.1	80.5	80.7	81.7	83.5	84.8	86.4	85.4	83.0	76.4	54.7
1250	91.6	92.3	89.7	89.5	87.8	85.3	82.9	80.8	78.9	77.4	77.5	78.5	80.2	81.5	83.2	82.2	79.8	73.2	51.0
1600	88.2	88.8	86.2	86.0	84.3	81.8	79.4	77.4	75.5	73.9	74.0	75.0	76.7	78.1	79.7	78.7	76.3	69.7	46.7
2000	84.4	85.1	82.4	82.3	80.5	78.0	75.6	73.6	71.7	70.2	70.3	71.2	72.9	74.3	75.9	74.9	72.5	65.8	41.5
2500	80.2	80.9	78.2	78.0	76.3	73.7	71.4	69.4	67.4	65.9	66.0	66.9	68.6	70.0	71.7	70.7	68.2	61.4	34.8
3150	75.4	76.1	73.5	73.3	71.5	69.0	66.6	64.6	62.7	61.1	61.2	62.1	63.8	65.3	66.9	65.9	63.4	56.4	24.7
4000	69.4	70.3	67.6	67.3	65.5	63.0	60.7	58.6	56.6	54.8	55.1	55.9	57.9	59.4	61.0	59.9	57.2	50.0	14.7
5000	62.7	63.7	60.9	60.6	58.6	56.2	53.8	51.7	49.7	48.2	48.5	49.0	51.3	52.7	54.5	53.0	50.2	42.1	4.7
6300	54.8	55.9	53.1	52.8	50.9	48.1	45.4	43.0	41.6	40.6	41.3	41.9	44.5	45.8	46.5	44.6	42.1	33.2	
8000	46.1	47.3	44.4	43.9	41.7	38.8	37.3	36.5	35.7	34.3	34.9	35.5	38.9	40.3	40.9	38.8	35.8	24.5	
10000	35.1	36.7	35.1	34.7	31.8	31.2	30.0	28.7	27.4	26.7	27.3	28.1	30.7	33.1	33.8	31.2	27.2	12.9	
12500	24.5	29.0	26.0	26.0	21.1	20.8	19.8	19.8	19.7	17.8	19.7	19.6	23.1	25.3	25.9	22.9	18.4	1.7	
16000	11.3	16.1	14.3	14.9	10.1	11.0	11.0	11.0	11.0	10.1	11.0	9.6	13.1	15.1	14.6	11.9	9.6		
20000		3.2	3.0	3.7		1.1	2.2	2.2	2.3	2.4	2.3		3.0	4.8	3.3	.8	.7		
25000																			

> SP. DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 76-039-001
RUN 01
AIRCRAFT CODE 039
OPERATION CODE 00413
PROFILE VERSION A
19 JUL 76
PAGE F1

NOISE SOURCE/SUBJECT:
B-1 AIRCRAFT
ENG. YF101-GE-100
GROUND RUNUP

OPERATION:
IDLE 70.5% RPM
SINGLE ENGINE
GROUND RUNUP
50-80 INTERPOLATED

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	95.4	96.5	94.1	93.4	92.0	89.0	86.2	83.7	81.7	79.6	80.2	81.8	84.5	85.5	86.9	85.2	82.5	76.4	56.4
250	93.2	94.2	91.8	91.1	89.7	86.7	83.9	81.5	79.5	77.4	78.0	79.5	82.2	83.2	84.7	82.9	80.3	74.2	54.2
315	90.8	91.9	89.4	88.8	87.3	84.4	81.6	79.2	77.3	75.2	75.8	77.2	79.8	80.9	82.3	80.6	78.0	71.9	51.9
400	88.4	89.5	87.0	86.3	84.9	82.0	79.2	76.8	74.9	72.9	73.5	74.9	77.4	78.6	79.9	78.2	75.6	69.6	49.6
500	85.9	87.0	84.5	83.8	82.4	79.5	76.7	74.3	72.5	70.6	71.1	72.4	74.9	76.1	77.4	75.7	73.2	67.1	47.1
630	83.3	84.4	81.8	81.2	79.7	76.8	74.1	71.8	70.0	68.1	68.6	69.9	72.3	73.5	74.8	73.1	70.6	64.5	44.6
800	80.5	81.6	79.0	78.4	76.9	74.1	71.4	69.1	67.4	65.6	66.1	67.2	69.5	70.8	72.1	70.4	67.9	61.9	41.9
1000	77.6	78.7	76.1	75.5	74.0	71.1	68.5	66.3	64.7	63.0	63.4	64.4	66.7	67.9	69.2	67.5	65.1	59.1	39.1
1250	74.4	75.6	72.9	72.4	70.8	68.0	65.5	63.4	61.9	60.2	60.7	61.5	63.7	65.0	66.2	64.6	62.1	56.2	36.2
1500	71.0	72.2	69.6	69.0	67.4	64.7	62.3	60.3	58.9	57.4	57.8	58.5	60.6	61.9	63.1	61.4	59.0	53.1	33.1
2000	67.4	68.6	66.9	65.4	63.8	61.2	58.9	57.1	55.8	54.4	54.8	55.4	57.5	58.8	59.9	58.2	55.7	49.9	29.9
2500	63.4	64.6	62.0	61.5	59.8	57.3	55.3	53.6	52.5	51.2	51.6	52.1	54.1	55.4	56.4	54.7	52.3	46.5	26.5
3150	59.0	60.3	57.7	57.2	55.5	53.2	51.3	49.9	48.9	47.7	48.0	48.5	50.5	51.8	52.8	51.0	48.5	42.8	22.8
4000	54.2	55.5	53.0	52.5	50.7	48.6	47.0	45.8	44.9	43.8	44.2	44.7	46.7	47.9	48.8	47.0	44.4	38.8	18.8
5000	48.8	50.2	47.9	47.2	45.5	43.7	42.3	41.3	40.6	39.6	39.9	40.5	42.4	43.6	44.5	42.7	40.0	34.4	14.4
6300	43.0	44.4	42.4	41.7	39.8	38.4	37.3	36.6	36.0	35.0	35.4	36.0	37.9	39.1	40.0	38.1	35.4	29.8	9.8
8000	37.2	38.6	37.0	36.3	34.4	33.5	32.7	32.3	31.8	31.0	31.5	32.0	34.0	35.1	35.8	34.0	31.4	25.7	5.7
10000	31.6	32.9	31.8	31.1	29.2	28.7	28.1	27.8	27.4	26.6	27.3	27.8	29.7	30.9	31.5	29.7	27.2	21.4	1.4
12500	26.2	27.4	26.5	26.1	24.1	23.8	23.3	23.1	22.8	22.1	22.8	23.3	25.3	26.5	26.9	25.1	22.8	16.9	
16000	20.7	21.9	21.1	20.9	19.0	18.8	18.3	18.2	17.9	17.3	18.0	18.5	20.4	21.7	22.0	20.2	18.2	12.1	
20000	15.1	16.2	15.4	15.4	13.5	13.5	13.0	12.9	12.6	12.1	12.9	13.4	15.3	16.6	16.8	15.0	13.2	7.0	
25000	9.4	10.2	9.3	9.5	7.8	7.8	7.4	7.3	7.1	6.7	7.4	8.0	9.9	11.4	11.5	9.4	8.0	1.8	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-1 AIRCRAFT
ENG. YF101-GE-100
GROUND RUNUP

OPERATION:
IDLE 70.5% RPM
SINGLE ENGINE
GROUND RUNUP
50-80 INTERPOLATED

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-039-001
RUN 01
AIRCRAFT CODE 039
OPERATION CODE 00013
PROFILE VERSION A
19 JUL 76
PAGE G1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	98.7	99.4	96.9	96.4	94.8	91.9	89.0	86.7	84.5	83.0	83.1	84.6	86.9	87.9	89.6	88.2	85.6	79.1	59.1
250	96.4	97.1	94.6	94.1	92.5	89.6	86.7	84.5	82.3	80.8	80.9	82.4	84.6	85.7	87.3	86.0	83.3	76.9	56.9
315	94.1	94.8	92.2	91.7	90.2	87.2	84.4	82.2	80.0	78.6	78.6	80.1	82.3	83.4	85.0	83.6	81.0	74.6	54.6
400	91.7	92.4	89.8	89.3	87.8	84.8	82.0	79.8	77.7	76.3	76.4	77.7	79.8	81.0	82.6	81.2	78.7	72.3	52.3
500	89.2	89.9	87.3	86.8	85.2	82.3	79.5	77.3	75.3	74.0	74.0	75.2	77.3	78.5	80.1	78.7	76.2	69.8	49.8
630	86.5	87.3	84.6	84.2	82.6	79.6	76.9	74.8	72.8	71.6	71.5	72.7	74.7	75.9	77.5	76.1	73.6	67.3	47.3
800	83.8	84.5	81.8	81.4	79.8	76.9	74.2	72.1	70.2	69.0	69.0	70.0	72.0	73.2	74.7	73.4	70.9	64.6	44.6
1000	80.8	81.6	78.9	78.5	76.8	74.0	71.4	69.3	67.5	66.4	66.3	67.2	69.1	70.4	71.9	70.6	68.1	61.8	41.8
1250	77.7	78.5	75.7	75.4	73.6	70.8	68.3	66.4	64.7	63.7	63.5	64.4	66.1	67.4	68.9	67.6	65.1	58.9	38.9
1500	74.3	75.1	72.4	72.0	70.3	67.5	65.1	63.3	61.7	60.8	60.6	61.3	63.1	64.4	65.8	64.5	62.8	55.8	35.8
2000	70.7	71.5	68.7	68.4	66.6	64.0	61.7	60.1	58.6	57.8	57.6	58.2	59.9	61.2	62.5	61.3	58.8	52.6	32.6
2500	66.7	67.5	64.8	64.5	62.7	60.2	58.1	56.6	55.3	54.7	54.4	54.9	56.6	57.9	59.1	57.8	55.3	49.2	29.2
3150	62.3	63.2	60.5	60.2	58.3	56.0	54.1	52.8	51.6	51.1	50.9	51.4	53.0	54.2	55.4	54.1	51.5	45.5	25.5
4000	56.8	57.8	55.3	54.9	53.0	50.9	49.2	48.2	47.1	46.6	46.5	46.9	48.6	49.8	50.9	49.5	46.9	40.9	20.9
5000	50.8	51.9	49.6	49.0	47.2	45.3	44.0	43.1	42.2	41.6	41.6	42.2	43.9	45.1	46.1	44.5	41.8	36.0	16.0
6300	44.3	45.5	43.5	42.8	41.0	39.5	38.4	37.8	37.1	36.4	36.6	37.1	38.9	40.1	41.0	39.3	36.6	30.9	10.9
8000	37.8	39.2	37.6	36.9	35.0	34.1	33.3	32.9	32.3	31.6	32.0	32.6	34.4	35.6	36.4	34.6	32.0	26.2	6.2
10000	31.6	32.9	31.8	31.1	29.2	28.7	28.1	27.8	27.4	26.6	27.3	27.8	29.7	30.9	31.5	29.7	27.2	21.4	1.4
12500	26.2	27.4	26.5	26.1	24.1	23.8	23.3	23.1	22.8	22.1	22.8	23.3	25.3	26.5	26.9	25.1	22.8	16.9	
16000	20.7	21.9	21.1	20.9	19.0	18.8	18.3	18.2	17.9	17.3	18.0	18.5	20.4	21.7	22.0	20.2	18.2	12.1	
20000	15.1	16.2	15.4	15.4	13.5	13.5	13.0	12.9	12.6	12.1	12.9	13.4	15.3	16.6	16.8	15.0	13.2	7.0	
25000	9.4	10.2	9.3	9.5	7.8	7.8	7.4	7.3	7.1	6.7	7.4	8.0	9.9	11.4	11.5	9.4	8.8	1.8	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

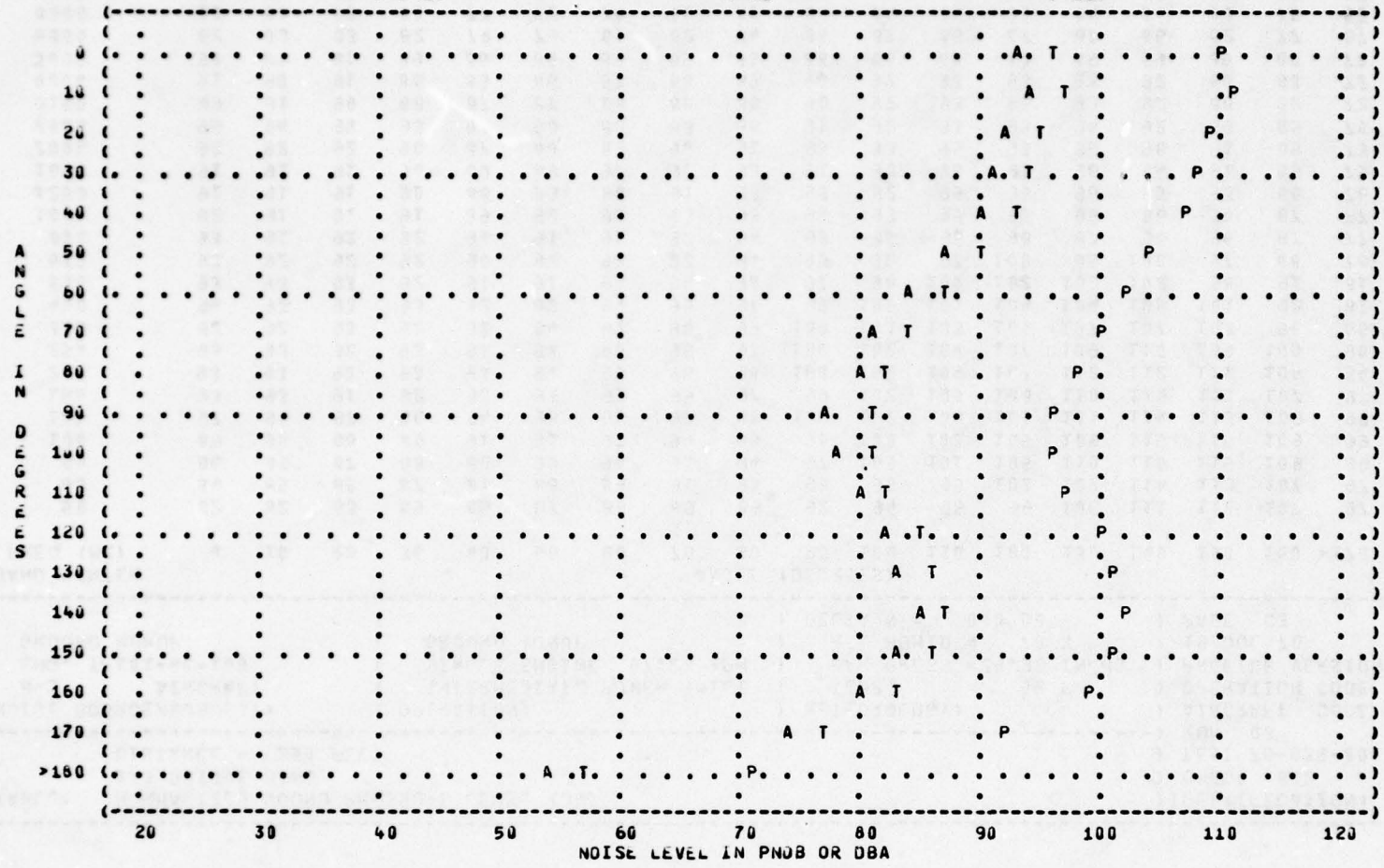
IDENTIFICATION:
OMEGA 8.2
TEST 76-039-001
RUN 01
AIRCRAFT CODE 039
OPERATION CODE 00413
PROFILE VERSION A
19 JUL 76
PAGE J1

NOISE SOURCE/SUBJECT:
B-1 AIRCRAFT
ENG. YF101-GE-100
GROUND RUNUP

OPERATION:
IDLE 70.5% RPM
SINGLE ENGINE
GROUND RUNUP
50-80 INTERPOLATED

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 76-039-001
RUN 03
AIRCRAFT CODE 039
OPERATION CODE 00106
PROFILE VERSION A
19 JUL 76
PAGE C3

NOISE SOURCE/SUBJECT:
B-1 AIRCRAFT
ENG. YF101-GE-100
GROUND RUNUP

OPERATION:
INTERMEDIATE POWER (MIL)
SINGLE ENGINE 97.2% RPM
GROUND RUNUP

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	82	82	83	85	86	87	88	89	89	92	94	96	99	106	111	112	107	97	87
63	84	85	85	87	87	88	89	91	93	95	96	98	102	107	114	113	107	97	87
80	86	88	87	88	88	90	90	91	94	97	100	101	105	110	115	115	109	99	89
100	89	90	88	89	91	91	92	94	95	98	100	102	105	109	115	115	109	99	89
125	97	98	97	96	94	96	96	97	98	100	102	104	108	111	114	113	109	99	89
160	93	93	91	92	92	93	95	95	97	99	102	105	108	110	110	111	107	97	87
200	93	93	92	93	93	94	95	96	98	100	102	104	107	112	112	111	104	94	84
250	93	93	92	93	93	94	96	96	97	100	102	104	107	109	110	109	100	90	80
315	92	92	93	92	92	94	94	96	99	100	101	103	105	107	107	103	96	86	76
400	94	93	93	93	92	92	94	95	97	99	100	101	104	104	105	101	92	82	72
500	93	93	93	92	91	91	93	94	95	97	98	100	102	102	102	98	91	81	71
630	93	92	92	92	90	90	92	93	94	95	96	97	100	98	100	97	88	78	68
800	93	91	92	92	90	91	91	92	94	95	95	96	98	97	98	96	87	77	67
1000	92	91	91	91	89	90	90	91	93	94	93	95	96	95	96	94	87	77	67
1250	91	91	91	90	88	89	90	91	92	93	92	95	95	96	95	93	86	76	66
1600	91	91	91	90	89	89	90	91	92	91	93	96	96	96	94	91	85	75	65
2000	92	92	92	90	87	88	89	90	91	93	93	95	95	96	96	91	85	75	65
2500	95	94	94	93	91	90	88	88	88	91	92	93	93	94	92	89	85	75	65
3150	89	91	90	88	87	87	88	88	88	90	92	93	93	93	92	88	82	72	62
4000	91	90	91	88	86	86	87	86	89	90	92	93	93	93	92	88	83	73	63
5000	90	89	91	89	86	85	85	85	85	88	88	88	89	89	89	85	80	70	60
6300	82	83	83	82	79	79	81	82	84	86	87	86	87	87	86	82	77	67	57
8000	80	81	82	80	77	77	78	80	81	84	84	84	84	84	84	80	75	65	55
10000	74	74	75	73	71	71	73	75	77	78	78	78	79	79	77	75	72	62	52
OVERALL	105	105	105	105	104	104	105	106	108	110	111	113	116	119	123	122	116	106	96

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-1 AIRCRAFT
ENG. YF101-GE-100
GROUND RUNUP

OPERATION:
INTERMEDIATE POWER (MIL)
SINGLE ENGINE 97.2% RPM
GROUND RUNUP

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-039-001
RUN 03
AIRCRAFT CODE 039
OPERATION CODE 00105
PROFILE VERSION A
19 JUL 76
PAGE 03

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	119.8	119.3	119.4	118.3	116.6	116.8	116.9	117.6	118.8	120.5	121.9	123.0	124.5	126.7	127.5	125.9	120.1	110.0	100.0
250	117.6	117.1	117.2	116.1	114.4	114.4	114.7	115.4	116.5	118.3	119.6	120.8	122.4	124.5	125.4	123.8	118.0	108.0	97.9
315	115.3	114.9	114.9	113.8	112.1	112.1	112.4	113.1	114.2	116.0	117.3	118.6	120.3	122.5	123.3	121.7	115.9	105.8	95.7
400	113.0	112.5	112.6	111.5	109.8	109.8	110.1	110.8	111.9	113.7	114.9	116.2	118.1	120.3	121.1	119.5	113.7	103.7	93.5
500	110.5	110.1	110.1	109.0	107.4	107.4	107.6	108.3	109.5	111.2	112.5	113.9	115.8	117.9	118.8	117.2	111.5	101.4	91.2
630	108.0	107.5	107.6	106.5	104.8	104.9	105.1	105.7	107.0	108.7	109.9	111.4	113.3	115.4	116.5	114.9	109.0	98.9	88.5
800	105.3	104.8	104.9	103.8	102.2	102.2	102.4	103.1	104.4	106.2	107.2	108.9	110.8	112.8	114.0	112.4	106.4	96.3	85.7
1000	102.5	102.0	102.0	101.0	99.3	99.4	99.6	100.3	101.8	103.5	104.5	106.3	108.1	110.0	111.2	109.7	103.6	93.5	82.6
1250	99.4	98.9	98.9	97.9	96.3	96.3	96.5	97.4	98.8	100.6	101.7	103.3	105.3	107.0	108.3	106.7	100.6	90.3	79.3
1600	96.1	95.6	95.6	94.6	92.9	93.0	93.2	94.3	95.8	97.7	98.7	100.3	102.4	103.7	105.0	103.4	97.3	86.8	75.6
2000	92.5	92.0	92.0	91.0	89.3	89.4	90.1	91.2	92.6	94.5	95.6	97.2	99.2	100.4	101.8	99.9	93.6	82.8	71.6
2500	88.5	87.9	87.9	87.0	85.3	85.4	86.2	87.3	88.9	90.6	91.6	93.3	95.4	96.5	97.9	95.8	89.4	78.2	67.0
3150	84.1	83.5	83.5	82.5	80.9	80.9	82.0	83.0	84.9	86.3	87.3	89.0	91.0	92.1	93.6	91.2	84.4	73.2	62.1
4000	79.1	78.4	78.4	77.7	76.0	76.5	77.5	78.5	80.4	81.8	82.8	84.4	86.5	87.3	88.6	85.8	78.6	68.0	56.8
5000	74.6	73.1	73.2	72.9	71.2	71.8	72.6	73.7	75.6	77.0	77.9	79.6	81.6	82.4	83.6	80.8	73.6	62.9	51.0
6300	69.6	67.8	68.0	67.7	65.9	66.7	67.5	68.6	70.5	71.9	72.9	74.5	76.7	77.4	78.5	75.6	68.4	57.4	44.6
8000	64.4	63.5	63.5	63.4	61.7	62.3	63.3	64.5	66.5	67.9	68.9	70.6	72.8	73.6	74.8	72.0	64.7	53.2	39.8
10000	59.6	59.0	58.9	58.6	57.1	57.6	58.9	60.0	62.2	63.7	64.7	66.4	68.8	69.6	71.0	68.2	60.7	48.5	33.9
12500	54.6	54.0	53.9	53.6	52.2	52.7	53.9	55.2	57.5	59.0	60.0	61.9	64.4	65.3	66.8	64.1	56.4	43.2	27.0
16000	49.0	48.2	48.2	47.9	46.4	47.0	48.6	49.9	52.3	53.8	54.9	56.9	59.5	60.5	62.4	59.6	51.8	37.7	15.3
20000	42.6	41.8	41.7	41.4	39.7	40.2	42.1	43.6	46.3	48.1	49.3	51.2	54.1	55.4	57.4	55.4	46.9	30.4	3.5
25000	34.7	34.1	33.5	33.4	31.6	32.9	34.7	36.1	39.1	41.1	42.6	44.7	47.9	49.5	52.1	50.6	41.7	23.1	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-1 AIRCRAFT
ENG. YF101-GE-100
GROUND RUNUP

OPERATION:
INTERMEDIATE POWER (MIL)
SINGLE ENGINE 97.2% RPM
GROUND RUNUP

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-039-001
RUN 03
AIRCRAFT CODE 039
OPERATION CODE 00105
PROFILE VERSION A
19 JUL 76
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	121.6	120.4	120.6	119.6	117.9	117.2	116.9	117.6	118.8	120.5	121.9	123.0	124.5	126.7	127.5	125.9	120.1	110.0	100.0
250	119.3	118.2	118.4	117.4	115.7	115.0	114.7	115.4	116.5	118.3	119.6	120.8	122.4	124.6	125.4	123.8	118.0	108.0	97.9
315	117.1	115.9	116.1	115.1	113.4	112.8	112.4	113.1	114.2	116.0	117.3	118.6	120.3	122.5	123.3	121.7	115.9	105.8	95.7
400	114.7	113.6	113.8	112.8	111.1	110.4	110.1	110.8	111.9	113.7	114.9	116.2	118.1	120.3	121.1	119.5	113.7	103.7	93.5
500	112.3	111.1	111.3	110.3	108.7	108.0	107.6	108.3	109.5	111.2	112.5	113.9	115.8	117.9	118.8	117.2	111.5	101.4	91.2
630	109.8	108.6	108.8	107.8	106.1	105.5	105.1	105.7	107.0	108.7	109.9	111.4	113.3	115.4	116.5	114.9	109.0	98.9	88.6
800	107.1	105.9	106.1	105.1	103.5	102.8	102.4	103.1	104.4	106.2	107.2	108.9	110.8	112.8	114.0	112.4	106.4	96.3	85.7
1000	104.2	103.0	103.2	102.3	100.6	100.0	99.6	100.3	101.8	103.5	104.5	106.3	108.1	110.0	111.2	109.7	103.6	93.5	82.6
1250	101.2	100.0	100.1	99.2	97.5	96.9	96.5	97.4	98.8	100.6	101.7	103.3	105.3	107.0	108.3	106.7	100.6	90.3	79.3
1600	97.9	96.6	96.8	95.8	94.2	93.6	93.2	94.3	95.8	97.7	98.7	100.3	102.4	103.7	105.0	103.4	97.3	86.8	75.6
2000	94.3	93.0	93.2	92.2	90.6	90.0	90.1	91.2	92.6	94.5	95.6	97.2	99.2	100.4	101.8	99.9	93.6	82.8	71.5
2500	90.3	89.0	89.2	88.2	86.6	86.0	86.2	87.3	88.9	90.6	91.6	93.3	95.4	96.5	97.9	95.8	89.4	78.2	67.0
3150	85.8	84.5	84.7	83.8	82.1	81.5	82.0	83.0	84.9	86.3	87.3	89.0	91.0	92.1	93.6	91.2	84.4	73.2	62.1
4000	80.5	79.3	79.4	78.8	77.1	77.0	77.5	78.5	80.4	81.8	82.8	84.4	86.5	87.3	88.6	85.8	78.6	68.0	56.8
5000	75.1	73.7	73.9	73.6	71.9	72.2	72.6	73.7	75.6	77.0	77.9	79.6	81.6	82.4	83.6	80.8	73.6	62.9	51.0
6300	69.7	68.3	68.5	68.2	66.5	67.0	67.5	68.6	70.5	71.9	72.9	74.5	76.7	77.4	78.5	75.6	68.4	57.4	44.6
8000	64.7	63.7	63.7	63.6	61.9	62.4	63.3	64.5	66.5	67.9	68.9	70.6	72.8	73.6	74.8	72.0	64.7	53.2	39.8
10000	59.6	59.0	58.9	58.6	57.1	57.6	58.9	60.0	62.2	63.7	64.7	66.4	68.8	69.5	71.0	68.2	60.7	48.5	33.9
12500	54.6	54.0	53.9	53.6	52.2	52.7	53.9	55.2	57.5	59.0	60.0	61.9	64.4	65.3	66.8	64.1	56.4	43.2	27.0
16000	49.0	48.2	48.2	47.9	46.4	47.0	48.6	49.9	52.3	53.8	54.9	56.9	59.5	60.6	62.4	59.6	51.8	37.7	15.3
20000	42.6	41.8	41.7	41.4	39.7	40.2	42.1	43.6	46.3	48.1	49.3	51.2	54.1	55.4	57.4	55.4	46.9	30.4	3.5
25000	34.7	34.1	33.5	33.4	31.6	32.9	34.7	36.1	39.1	41.1	42.6	44.7	47.9	49.5	52.1	50.6	41.7	23.1	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
8-1 AIRCRAFT
ENG. YF101-GE-100
GROUND RUNUP

OPERATION:
INTERMEDIATE POWER (MIL)
SINGLE ENGINE 97.2% RPM
GROUND RUNUP

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-039-001
RUN 03
AIRCRAFT CODE 039
OPERATION CODE 00105
PROFILE VERSION A
19 JUL 76
PAGE F3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	105.3	104.8	105.0	104.0	102.1	102.4	103.1	104.0	105.4	106.8	107.6	109.2	110.8	111.8	112.4	110.3	103.9	93.9	83.9
250	103.2	102.6	102.8	101.8	100.0	100.3	101.0	101.8	103.3	104.7	105.5	107.1	108.7	109.7	110.4	108.3	101.8	91.8	81.8
315	101.0	100.4	100.6	99.6	97.8	98.1	98.8	99.7	101.1	102.6	103.4	105.0	106.6	107.5	108.3	106.2	99.8	89.8	79.8
400	98.7	98.1	98.3	97.4	95.6	95.9	96.6	97.5	99.0	100.4	101.2	102.8	104.4	105.4	106.2	104.1	97.6	87.6	77.6
500	96.4	95.8	96.0	95.0	93.3	93.6	94.4	95.3	96.7	98.2	98.9	100.6	102.2	103.2	104.0	101.9	95.4	85.4	75.4
630	94.0	93.4	93.6	92.7	90.9	91.3	92.1	93.0	94.5	95.9	96.6	98.3	99.9	100.9	101.7	99.5	93.0	83.0	73.0
800	91.6	90.9	91.1	90.2	88.5	88.9	89.7	90.6	92.1	93.5	94.2	95.9	97.6	98.5	99.3	97.1	90.5	80.5	70.5
1000	89.6	88.4	88.5	87.7	86.0	86.4	87.2	88.2	89.7	91.1	91.8	93.4	95.2	96.0	96.8	94.5	87.9	77.9	67.9
1250	86.4	85.7	85.8	85.1	83.4	83.8	84.6	85.6	87.2	88.5	89.2	90.8	92.6	93.3	94.1	91.7	85.0	75.0	65.0
1600	83.6	82.9	83.0	82.4	80.7	81.1	82.0	82.9	84.5	85.9	86.5	88.1	89.9	90.4	91.3	88.7	81.9	71.9	61.9
2000	80.8	80.0	80.1	79.6	77.8	78.3	79.2	80.2	81.8	83.1	83.7	85.3	87.1	87.5	88.3	85.7	78.7	68.7	58.7
2500	77.7	76.8	77.0	76.5	74.7	75.2	76.1	77.1	78.8	80.1	80.6	82.2	84.0	84.2	85.0	82.2	75.1	65.1	55.1
3150	74.3	73.4	73.6	73.2	71.4	71.8	72.8	73.8	75.5	76.7	77.1	78.8	80.5	80.5	81.3	78.5	71.2	61.2	51.2
4000	70.7	69.6	69.9	69.5	67.7	68.2	69.1	70.1	71.8	73.0	73.3	75.0	75.7	76.5	77.3	74.5	67.0	57.0	47.0
5000	66.6	65.4	65.7	65.4	63.5	64.1	65.0	66.0	67.7	68.9	69.1	70.8	72.5	72.2	73.0	70.2	62.6	52.6	42.6
6300	62.2	61.0	61.2	61.0	59.1	59.7	60.6	61.6	63.3	64.5	64.7	66.3	68.1	67.6	68.5	65.7	58.1	48.1	38.1
8000	58.1	56.8	57.1	56.9	55.1	55.6	56.6	57.6	59.4	60.6	60.8	62.4	64.3	63.9	64.9	62.1	54.6	44.6	34.6
10000	53.6	52.3	52.6	52.5	50.7	51.2	52.3	53.3	55.1	56.4	56.7	58.2	60.3	60.0	61.0	58.3	50.9	40.9	30.9
12500	48.8	47.5	47.8	47.8	46.0	46.4	47.6	48.6	50.5	51.8	52.3	53.8	56.0	55.8	57.0	54.3	47.1	37.1	27.1
16000	43.6	42.3	42.6	42.6	40.9	41.3	42.5	43.6	45.5	46.9	47.5	49.0	51.3	51.4	52.7	50.2	43.3	33.3	23.3
20000	37.8	36.7	36.9	36.9	35.4	35.7	37.1	38.2	40.1	41.5	42.3	43.8	46.2	46.8	48.2	46.1	39.6	29.6	19.5
25000	31.6	30.7	30.8	30.8	29.5	29.8	31.2	32.3	34.3	35.8	36.8	38.4	40.9	42.0	43.8	42.0	35.9	25.9	15.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-1 AIRCRAFT
ENG. YF101-GE-100
GROUND RUNUP

OPERATION:
INTERMEDIATE POWER (MIL)
SINGLE ENGINE 97.2% RPM
GROUND RUNUP

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-039-001
RUN 03
AIRCRAFT CODE 039
OPERATION CODE 00106
PROFILE VERSION A
19 JUL 76
PAGE G3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	107.1	105.9	106.2	105.2	103.4	103.0	103.1	104.0	105.4	106.8	107.6	109.2	110.8	111.8	112.4	110.3	103.9	93.9	83.9
250	105.0	103.7	104.0	103.1	101.3	100.9	101.0	101.8	103.3	104.7	105.5	107.1	108.7	109.7	110.4	108.3	101.8	91.8	81.8
315	102.7	101.5	101.8	100.9	99.1	98.7	98.8	99.7	101.1	102.6	103.4	105.0	105.6	107.5	108.3	106.2	99.8	89.8	79.8
400	100.5	99.2	99.5	98.6	96.8	96.5	96.6	97.5	99.0	100.4	101.2	102.8	104.4	105.4	106.2	104.1	97.6	87.6	77.6
500	98.2	96.9	97.2	96.3	94.6	94.2	94.4	95.3	96.7	98.2	98.9	100.6	102.2	103.2	104.0	101.9	95.4	85.4	75.4
630	95.8	94.5	94.8	94.0	92.2	91.9	92.1	93.0	94.5	95.9	96.6	98.3	99.9	100.9	101.7	99.5	93.0	83.0	73.0
800	93.3	92.0	92.3	91.5	89.8	89.5	89.7	90.6	92.1	93.5	94.2	95.9	97.6	98.5	99.3	97.1	90.5	80.5	70.5
1000	90.8	89.4	89.7	89.0	87.3	87.0	87.2	88.2	89.7	91.1	91.8	93.4	95.2	96.0	96.8	94.5	87.9	77.9	67.9
1250	88.2	86.7	87.1	86.4	84.7	84.4	84.6	85.6	87.2	88.5	89.2	90.8	92.6	93.3	94.1	91.7	85.0	75.0	65.0
1600	85.4	83.9	84.3	83.7	81.9	81.7	82.0	82.9	84.5	85.9	86.5	88.1	89.9	90.4	91.3	88.7	81.9	71.9	61.9
2000	82.6	81.0	81.4	80.9	79.1	78.9	79.2	80.2	81.8	83.1	83.7	85.3	87.1	87.5	88.3	85.7	78.7	68.7	58.7
2500	79.5	77.9	78.2	77.8	76.0	75.8	76.1	77.1	78.8	80.1	80.6	82.2	84.0	84.2	85.0	82.2	75.1	65.1	55.1
3150	76.1	74.4	74.8	74.4	72.7	72.4	72.8	73.8	75.5	76.7	77.1	78.8	80.5	80.5	81.3	78.5	71.2	61.2	51.2
4000	72.1	70.5	70.8	70.5	68.7	68.6	69.1	70.1	71.8	73.0	73.3	75.0	76.7	76.5	77.3	74.5	67.0	57.0	47.0
5000	67.6	66.1	66.4	66.2	64.3	64.4	65.0	65.0	67.7	68.9	69.1	70.8	72.5	72.2	73.0	70.2	62.6	52.6	42.6
6300	62.9	61.4	61.7	61.5	59.6	59.9	60.6	61.6	63.3	64.5	64.7	66.3	68.1	67.5	68.5	65.7	58.1	48.1	38.1
8000	58.4	57.0	57.3	57.2	55.3	55.7	56.6	57.6	59.4	60.6	60.8	62.4	64.3	63.9	64.9	62.1	54.6	44.6	34.6
10000	53.6	52.3	52.6	52.5	50.7	51.2	52.3	53.3	55.1	56.4	56.7	58.2	60.3	60.0	61.0	58.3	50.9	40.9	30.9
12500	48.8	47.5	47.8	47.8	46.0	46.4	47.6	48.6	50.5	51.8	52.3	53.8	56.0	55.8	57.0	54.3	47.1	37.1	27.1
16000	43.6	42.3	42.6	42.6	40.9	41.3	42.5	43.6	45.5	46.9	47.5	49.0	51.3	51.4	52.7	50.2	43.3	33.3	23.3
20000	37.8	36.7	36.9	36.9	35.4	35.7	37.1	38.2	40.1	41.5	42.3	43.8	46.2	45.8	48.2	46.1	39.6	29.6	19.6
25000	31.6	30.7	30.8	30.8	29.5	29.8	31.2	32.3	34.3	35.8	36.8	38.4	40.9	42.0	43.8	42.0	35.9	25.9	15.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

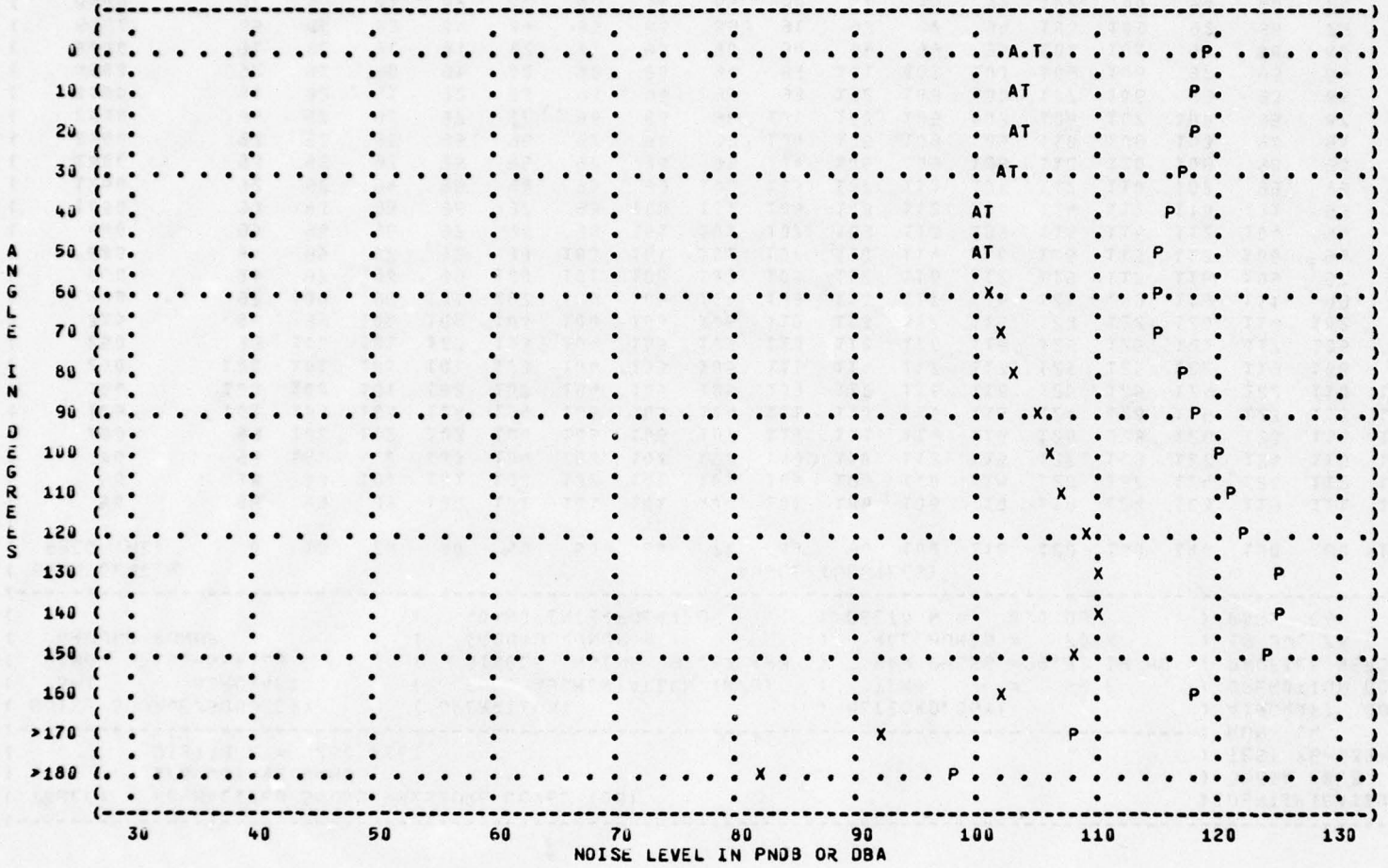
NOISE SOURCE/SUBJECT:
8-1 AIRCRAFT
ENG. YF101-GE-100
GROUND RUNUP

OPERATION:
INTERMEDIATE POWER (MIL)
SINGLE ENGINE 97.2% RPM
GROUND RUNUP

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-039-001
RUN 03
AIRCRAFT CODE 039
OPERATION CODE 00106
PROFILE VERSION A
19 JUL 76
PAGE J3

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 76-039-001
RUN 04
AIRCRAFT CODE 039
OPERATION CODE 00103
PROFILE VERSION A
19 JUL 76
PAGE C4

NOISE SOURCE/SUBJECT:
B-1 AIRCRAFT
ENG. YF101-GE-100
GROUND RUNUP

OPERATION:
FULL AUGMENTATION (A/B)
SINGLE ENGINE 97.6% RPM
GROUND RUNUP
40-60 INTERPOLATED

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	96	99	99	100	101	101	101	100	106	106	106	110	119	124	123	119	111	101	91
63	98	99	101	101	102	102	101	101	105	106	110	114	123	127	124	120	112	102	92
80	99	101	102	103	104	103	102	102	109	110	112	115	127	129	127	124	115	105	95
100	99	102	102	103	104	105	106	107	110	111	114	116	126	128	126	123	114	104	94
125	102	103	103	104	104	105	105	104	111	113	115	116	124	128	125	123	113	103	93
160	100	102	101	102	103	104	105	105	109	112	116	118	125	125	124	122	110	100	90
200	100	101	101	101	103	104	105	105	111	114	117	117	125	125	122	119	108	98	88
250	99	100	101	103	103	104	105	105	110	112	116	116	125	125	121	117	105	95	85
315	96	99	100	101	103	104	105	106	110	113	117	116	123	122	120	114	102	92	82
400	97	100	99	101	102	103	104	104	109	113	117	114	121	119	119	111	99	89	79
500	95	97	98	99	100	101	102	103	108	112	116	112	119	117	116	109	97	87	77
630	94	95	97	99	99	100	101	101	107	110	114	110	116	115	113	106	94	84	74
800	95	94	96	97	98	99	101	101	107	109	113	109	116	114	112	104	94	84	74
1000	93	93	95	96	97	98	100	101	106	108	112	108	114	112	110	101	93	83	73
1250	92	92	94	95	96	98	99	100	105	107	110	107	112	110	107	99	95	85	75
1600	93	93	93	95	96	97	98	99	104	106	109	106	112	110	106	98	93	83	73
2000	93	93	93	95	96	97	98	99	104	105	109	105	110	109	103	98	91	81	71
2500	96	97	96	97	97	96	96	96	101	103	105	102	108	107	100	95	87	77	67
3150	91	92	91	92	93	93	94	95	99	102	103	100	107	106	99	93	86	76	66
4000	92	91	90	91	92	92	93	94	99	101	102	100	106	106	97	93	84	74	64
5000	91	92	91	91	92	91	90	90	94	96	99	96	103	101	93	88	80	70	60
6300	85	85	83	84	84	85	86	86	91	93	97	94	103	100	92	85	76	66	56
8000	82	83	81	82	82	83	84	84	88	91	96	95	102	98	93	83	74	64	54
10000	76	76	74	74	74	75	76	76	82	85	91	89	102	96	91	79	71	61	51
OVERALL	110	112	112	113	114	115	115	116	121	123	126	126	135	136	134	131	121	111	101

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-1 AIRCRAFT
ENG. YF101-GE-100
GROUND RUNUP

OPERATION:
FULL AUGMENTATION (A/B)
SINGLE ENGINE 97.6% RPM
GROUND RUNUP
40-60 INTERPOLATED

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-039-001
RUN 04
AIRCRAFT CODE 039
OPERATION CODE 00103
PROFILE VERSION A
19 JUL 76
PAGE D4

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	122.2	123.1	122.7	123.8	124.5	124.6	125.2	125.7	130.7	132.8	136.0	134.4	142.1	141.6	138.2	134.2	124.5	114.5	104.5
250	120.6	120.9	120.5	121.6	122.3	122.4	123.0	123.5	128.6	130.6	133.9	132.3	140.0	139.5	136.1	132.1	122.4	112.4	102.4
315	117.8	118.6	118.3	119.4	120.1	120.2	120.8	121.4	126.4	128.4	131.7	130.1	137.9	137.4	134.0	130.0	120.3	110.3	100.3
400	115.5	116.3	116.0	117.1	117.8	118.0	118.5	119.1	124.1	126.2	129.5	128.0	135.7	135.2	131.8	127.9	118.2	108.2	98.1
500	113.1	113.9	113.6	114.8	115.4	115.6	116.2	116.8	121.8	123.9	127.3	125.7	133.4	132.9	129.6	125.7	116.0	106.0	95.9
630	110.6	111.4	111.1	112.3	113.0	113.1	113.8	114.3	119.4	121.6	124.9	123.4	130.9	130.5	127.3	123.2	113.7	103.7	93.6
800	107.9	108.8	108.5	109.7	110.4	110.5	111.2	111.8	116.8	119.1	122.5	120.9	128.3	127.9	125.0	120.7	111.3	101.3	91.0
1000	105.1	106.0	105.7	106.9	107.6	107.8	108.5	109.1	114.2	116.6	120.0	118.4	125.7	125.2	122.5	118.1	108.7	98.6	88.2
1250	102.1	103.0	102.7	103.9	104.6	104.9	105.8	106.2	111.4	113.9	117.3	115.5	122.7	122.3	119.7	115.1	105.7	95.6	84.9
1600	98.7	99.7	99.5	100.7	101.4	102.0	102.8	103.3	108.5	111.1	114.5	112.6	119.8	119.1	116.9	111.9	102.5	92.3	81.2
2000	95.1	96.0	95.9	97.2	98.1	98.9	99.7	100.2	105.5	108.1	111.5	109.6	116.8	116.0	113.9	108.4	99.0	88.5	77.2
2500	91.0	92.0	91.9	93.3	94.2	95.0	95.9	96.3	101.7	104.3	107.7	105.8	113.0	112.2	110.2	104.5	95.0	84.0	72.8
3150	86.5	87.4	87.8	88.9	89.8	90.7	91.6	92.2	97.6	100.4	103.8	101.6	108.8	108.0	106.0	100.1	90.3	79.0	68.3
4000	81.4	82.4	83.2	84.5	85.2	86.1	87.0	87.7	93.1	95.0	99.4	97.1	104.2	103.5	101.4	95.3	84.6	73.9	63.2
5000	76.5	77.4	78.4	79.7	80.4	81.2	82.3	83.0	88.5	91.2	94.7	92.3	99.5	98.8	96.7	90.5	79.6	69.0	58.0
6300	71.4	72.3	73.3	74.6	75.3	76.2	77.4	78.0	83.6	86.3	89.8	87.4	94.6	93.8	91.7	85.4	74.5	63.8	52.3
8000	67.0	68.2	69.3	70.5	71.3	72.2	73.3	74.0	79.5	82.5	86.0	83.6	90.9	90.2	88.2	81.9	70.9	60.0	47.8
10000	62.6	63.9	65.1	66.2	67.1	68.1	69.1	69.8	75.3	78.4	82.0	79.7	87.0	86.4	84.4	78.2	67.0	55.8	43.0
12500	57.8	59.2	60.4	61.6	62.5	63.5	64.5	65.3	70.9	73.9	77.6	75.4	82.9	82.3	80.4	74.3	62.8	51.1	37.1
16000	52.5	54.0	55.2	56.5	57.4	58.4	59.5	60.3	66.0	69.1	72.9	70.7	78.4	77.9	76.1	70.0	58.7	45.6	30.5
20000	46.4	48.3	49.5	50.8	51.7	52.7	53.9	54.7	60.0	63.8	67.6	65.7	73.5	73.2	71.3	66.1	54.4	39.3	19.2
25000	39.5	41.8	42.6	44.0	45.1	46.3	47.3	48.2	54.5	57.9	61.8	60.1	68.2	68.5	66.2	62.0	49.7	32.9	7.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 76-039-001
RUN 04
AIRCRAFT CODE 039
OPERATION CODE 00103
PROFILE VERSION A
19 JUL 76
PAGE E4

NOISE SOURCE/SUBJECT:
B-1 AIRCRAFT
ENG. YF101-GE-100
GROUND RUNUP

OPERATION:
FULL AUGMENTATION (A/B)
SINGLE ENGINE 97.6% RPM
GROUND RUNUP
40-60 INTERPOLATED

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	123.6	124.6	124.1	125.0	125.8	124.6	125.2	125.3	130.7	132.8	136.0	134.4	142.1	141.6	138.2	134.2	124.5	114.5	104.5
250	121.4	122.4	121.9	122.9	123.6	122.4	123.0	124.1	128.6	130.6	133.9	132.3	140.0	139.5	136.1	132.1	122.4	112.4	102.4
315	119.2	120.2	119.7	120.6	121.4	120.2	120.8	121.9	126.4	128.4	131.7	130.1	137.9	137.4	134.0	130.0	120.3	110.3	100.3
400	116.9	117.9	117.4	118.4	119.1	118.0	118.5	119.7	124.1	126.2	129.5	128.0	135.7	135.2	131.8	127.9	118.2	108.2	98.1
500	114.5	115.5	115.0	116.0	116.7	115.6	116.2	117.3	121.8	123.9	127.3	125.7	133.4	132.9	129.6	125.7	116.0	106.0	95.9
630	111.9	113.0	112.5	113.5	114.3	113.1	113.8	114.9	119.4	121.6	124.9	123.4	130.9	130.5	127.3	123.2	113.7	103.7	93.6
800	109.3	110.3	109.9	110.9	111.7	110.5	111.2	112.4	116.8	119.1	122.5	120.9	128.3	127.9	125.0	120.7	111.3	101.3	91.0
1000	106.5	107.5	107.1	108.1	108.9	107.8	108.5	109.7	114.2	116.6	120.0	118.4	125.7	125.2	122.5	118.1	108.7	98.6	88.2
1250	103.4	104.5	104.1	105.2	105.9	104.9	105.8	106.8	111.4	113.9	117.3	115.5	122.7	122.3	119.7	115.1	105.7	95.6	84.9
1600	100.1	101.2	100.9	101.9	102.7	102.0	102.8	103.8	108.5	111.1	114.5	112.6	119.8	119.1	116.9	111.9	102.5	92.3	81.2
2000	96.5	97.6	97.3	98.4	99.4	98.9	99.7	100.7	105.5	108.1	111.5	109.6	116.8	116.0	113.9	108.4	99.0	88.5	77.2
2500	92.4	93.5	93.3	94.5	95.5	95.0	95.9	96.9	101.7	104.3	107.7	105.8	113.0	112.2	110.2	104.5	95.0	84.0	72.8
3150	87.9	89.0	89.2	90.2	91.1	90.7	91.6	92.8	97.6	100.4	103.8	101.6	108.8	108.0	106.0	100.1	90.3	79.0	68.3
4000	82.5	83.7	84.3	85.5	86.2	86.1	87.0	88.2	93.1	96.0	99.4	97.1	104.2	103.5	101.4	95.3	84.6	73.9	63.2
5000	77.3	78.3	79.2	80.4	81.1	81.2	82.3	83.3	88.5	91.2	94.7	92.3	99.5	98.8	96.7	90.5	79.6	69.0	58.0
6300	71.9	72.9	73.9	75.1	75.8	76.2	77.4	78.2	83.0	85.3	89.0	87.4	94.6	93.8	91.7	85.4	74.5	63.8	52.3
8000	67.3	68.5	69.0	70.8	71.6	72.2	73.3	74.1	79.5	82.5	86.0	83.6	90.9	90.2	88.2	81.9	70.9	60.0	47.8
10000	62.6	63.9	65.1	66.2	67.1	68.1	69.1	69.8	75.3	78.4	82.0	79.7	87.0	86.4	84.4	78.2	67.0	55.8	43.0
12500	57.8	59.2	60.4	61.6	62.5	63.5	64.5	65.3	70.9	73.9	77.6	75.4	82.9	82.3	80.4	74.3	62.8	51.1	37.1
16000	52.5	54.0	55.2	56.5	57.4	58.4	59.5	60.3	66.0	69.1	72.9	70.7	78.4	77.9	76.1	70.0	58.7	45.6	30.5
20000	46.4	48.3	49.5	50.8	51.7	52.7	53.9	54.7	60.6	63.8	67.6	65.7	73.5	73.2	71.3	66.1	54.4	39.3	19.2
25000	39.5	41.8	42.6	44.0	45.1	45.3	47.3	48.2	54.5	57.9	61.8	60.1	68.2	68.6	66.2	62.0	49.7	32.9	7.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-1 AIRCRAFT
ENG. YF101-GE-100
GROUND RUNUP

OPERATION:
FULL AUGMENTATION (A/B)
SINGLE ENGINE 97.6% RPM
GROUND RUNUP
40-60 INTERPOLATED

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-039-001
RUN 04
AIRCRAFT CODE 039
OPERATION CODE 00103
PROFILE VERSION A
19 JUL 76
PAGE F4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	107.1	107.7	108.0	109.3	110.1	110.9	112.0	112.6	117.9	120.3	123.6	121.1	127.9	126.9	124.4	119.2	108.9	98.9	88.9
250	104.9	105.6	105.9	107.1	108.0	108.8	109.9	110.5	115.8	118.2	121.6	119.0	125.9	124.8	122.4	117.2	106.8	96.8	86.8
315	102.7	103.4	103.8	105.0	105.9	106.7	107.7	108.4	113.6	116.1	119.4	116.9	123.8	122.7	120.3	115.1	104.8	94.8	84.8
400	100.5	101.1	101.6	102.8	103.7	104.5	105.6	106.2	111.5	113.9	117.3	114.8	121.7	120.6	118.2	113.0	102.7	92.7	82.7
500	98.2	98.9	99.3	100.6	101.4	102.3	103.4	104.0	109.3	111.7	115.1	112.6	119.5	118.4	116.1	110.8	100.5	90.5	80.5
630	95.8	96.5	97.0	98.3	99.1	100.0	101.1	101.8	107.0	109.5	112.9	110.3	117.2	116.1	113.8	108.5	98.1	88.1	78.1
800	93.3	94.1	94.6	95.9	96.8	97.7	98.8	99.4	104.7	107.2	110.7	108.0	114.9	113.7	111.5	106.1	95.7	85.7	75.7
1000	90.8	91.6	92.2	93.5	94.3	95.2	96.4	97.0	102.3	104.8	108.3	105.7	112.4	111.3	109.1	103.6	93.2	83.2	73.2
1250	88.1	88.9	89.6	90.9	91.8	92.7	93.8	94.5	99.8	102.4	105.8	103.1	109.9	108.8	106.6	100.8	90.4	80.4	70.4
1600	85.3	86.2	86.9	88.2	89.1	90.0	91.2	91.9	97.2	99.8	103.3	100.5	107.2	105.9	103.9	97.9	87.5	77.5	67.5
2000	82.4	83.3	84.2	85.5	86.3	87.3	88.5	89.2	94.5	97.1	100.6	97.8	104.4	103.0	101.2	94.9	84.5	74.5	64.5
2500	79.3	80.1	81.1	82.4	83.2	84.2	85.4	86.1	91.5	94.1	97.7	94.7	101.2	99.7	98.0	91.4	81.0	71.0	61.0
3150	75.8	76.6	77.7	79.0	79.8	80.8	82.1	82.8	88.2	90.9	94.4	91.3	97.8	96.2	94.4	87.7	77.3	67.3	57.3
4000	72.1	72.7	74.0	75.3	76.1	77.1	78.4	79.2	84.6	87.2	90.7	87.5	94.0	92.3	90.5	83.5	73.3	63.3	53.3
5000	67.9	68.5	69.9	71.1	71.9	73.0	74.4	75.1	80.6	83.1	86.6	83.4	89.8	88.1	86.3	79.1	69.0	59.0	49.0
6300	63.5	64.0	65.5	66.7	67.5	68.5	70.0	70.7	76.2	78.8	82.2	79.0	85.4	83.7	81.8	74.6	64.5	54.5	44.5
8000	59.4	60.0	61.5	62.8	63.5	64.6	66.0	66.7	72.2	74.9	78.4	75.1	81.6	80.0	78.2	71.2	60.8	50.8	40.8
10000	55.1	55.9	57.3	58.6	59.3	60.3	61.7	62.4	67.9	70.6	74.2	71.0	77.6	76.0	74.3	67.5	56.8	46.8	36.8
12500	50.4	51.4	52.7	54.0	54.7	55.7	57.0	57.7	63.2	65.1	69.7	66.6	73.3	71.8	70.2	63.7	52.8	42.8	32.8
16000	45.4	46.6	47.8	49.1	49.8	50.8	52.0	52.7	58.1	61.1	64.8	61.8	68.6	67.3	65.7	59.7	48.7	38.7	28.7
20000	40.0	41.4	42.4	43.7	44.5	45.4	46.6	47.2	52.6	55.7	59.4	56.7	63.6	62.6	61.0	55.5	44.8	34.8	24.8
25000	34.4	35.0	36.7	38.1	38.8	39.8	40.8	41.4	46.7	49.8	53.5	51.2	58.4	57.3	56.1	51.4	40.9	30.9	20.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-1 AIRCRAFT
ENG. YF101-GE-100
GROUND RUNUP

OPERATION:
FULL AUGMENTATION (A/B)
SINGLE ENGINE 97.6% RPM
GROUND RUNUP
40-60 INTERPOLATED

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-039-001
RUN 04
AIRCRAFT CODE 039
OPERATION CODE 00103
PROFILE VERSION A
19 JUL 76

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	108.4	109.2	109.4	110.5	111.4	110.9	112.0	113.2	117.9	120.3	123.6	121.1	127.9	126.9	124.4	119.2	108.9	98.9	88.9
250	106.3	107.1	107.3	108.4	109.3	108.8	109.9	111.1	115.8	118.2	121.6	119.0	125.9	124.8	122.4	117.2	106.8	96.8	86.8
315	104.1	104.9	105.1	106.2	107.2	106.7	107.7	109.0	113.6	116.1	119.4	116.9	123.8	122.7	120.3	115.1	104.8	94.8	84.8
400	101.8	102.7	103.0	104.1	105.0	104.5	105.6	106.8	111.5	113.9	117.3	114.8	121.	120.6	118.2	113.0	102.7	92.7	82.7
500	99.5	100.4	100.7	101.8	102.7	102.3	103.4	104.6	109.3	111.7	115.1	112.6	119.5	118.4	116.1	110.8	100.5	90.5	80.5
630	97.1	98.0	98.4	99.5	100.4	100.0	101.1	102.3	107.0	109.5	112.9	110.3	117.2	116.1	113.8	108.5	98.1	88.1	78.1
800	94.7	95.6	96.0	97.1	98.1	97.7	98.8	100.0	104.7	107.2	110.7	108.0	114.9	113.7	111.5	106.1	95.7	85.7	75.7
1000	92.1	93.1	93.6	94.7	95.6	95.2	96.4	97.6	102.3	104.8	108.3	105.7	112.4	111.3	109.1	103.6	93.2	83.2	73.2
1250	89.5	90.5	91.0	92.1	93.1	92.7	93.8	95.1	99.8	102.4	105.8	103.1	109.9	108.6	106.6	100.8	90.4	80.4	70.4
1600	86.7	87.7	88.3	89.5	90.4	90.0	91.2	92.5	97.2	99.8	103.3	100.5	107.2	105.9	103.9	97.9	87.5	77.5	67.5
2000	83.8	84.9	85.5	86.7	87.6	87.3	88.5	89.7	94.5	97.1	100.6	97.8	104.4	103.0	101.2	94.9	84.5	74.5	64.5
2500	80.6	81.7	82.5	83.6	84.5	84.2	85.4	86.7	91.5	94.1	97.7	94.7	101.2	99.7	98.0	91.4	81.0	71.0	61.0
3150	77.2	78.1	79.1	80.2	81.1	80.8	82.1	83.4	88.2	90.9	94.4	91.3	97.8	96.2	94.4	87.7	77.3	67.3	57.3
4000	73.2	74.0	75.1	76.3	77.1	77.1	78.4	79.6	84.6	87.2	90.7	87.5	94.0	92.3	90.5	83.5	73.3	63.3	53.3
5000	68.7	69.4	70.7	71.9	72.7	73.0	74.4	75.4	80.6	83.1	86.6	83.4	89.8	88.1	86.3	79.1	69.0	59.0	49.0
6300	64.0	64.6	66.0	67.2	68.0	68.5	70.0	70.9	76.2	78.8	82.2	79.0	85.4	83.7	81.8	74.6	64.5	54.5	44.5
8000	59.7	60.3	61.8	63.0	63.8	64.6	66.0	66.8	72.2	74.9	78.4	75.1	81.6	80.0	78.2	71.2	60.8	50.8	40.8
10000	55.1	55.9	57.3	58.6	59.3	60.3	61.7	62.4	67.9	70.6	74.2	71.0	77.6	76.0	74.3	67.5	56.8	46.8	36.8
12500	50.4	51.4	52.7	54.0	54.7	55.7	57.0	57.7	63.2	65.1	69.7	66.6	73.3	71.8	70.2	63.7	52.8	42.8	32.8
16000	45.4	46.6	47.8	49.1	49.8	50.8	52.0	52.7	58.1	61.1	64.8	61.8	68.6	67.3	65.7	59.7	48.7	38.7	28.7
20000	40.0	41.4	42.4	43.7	44.5	45.4	46.6	47.2	52.6	55.7	59.4	56.7	63.6	62.6	61.0	55.5	44.8	34.8	24.8
25000	34.4	36.0	36.7	38.1	38.8	39.8	40.8	41.4	46.7	49.8	53.5	51.2	58.4	57.9	56.1	51.4	40.9	30.9	20.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

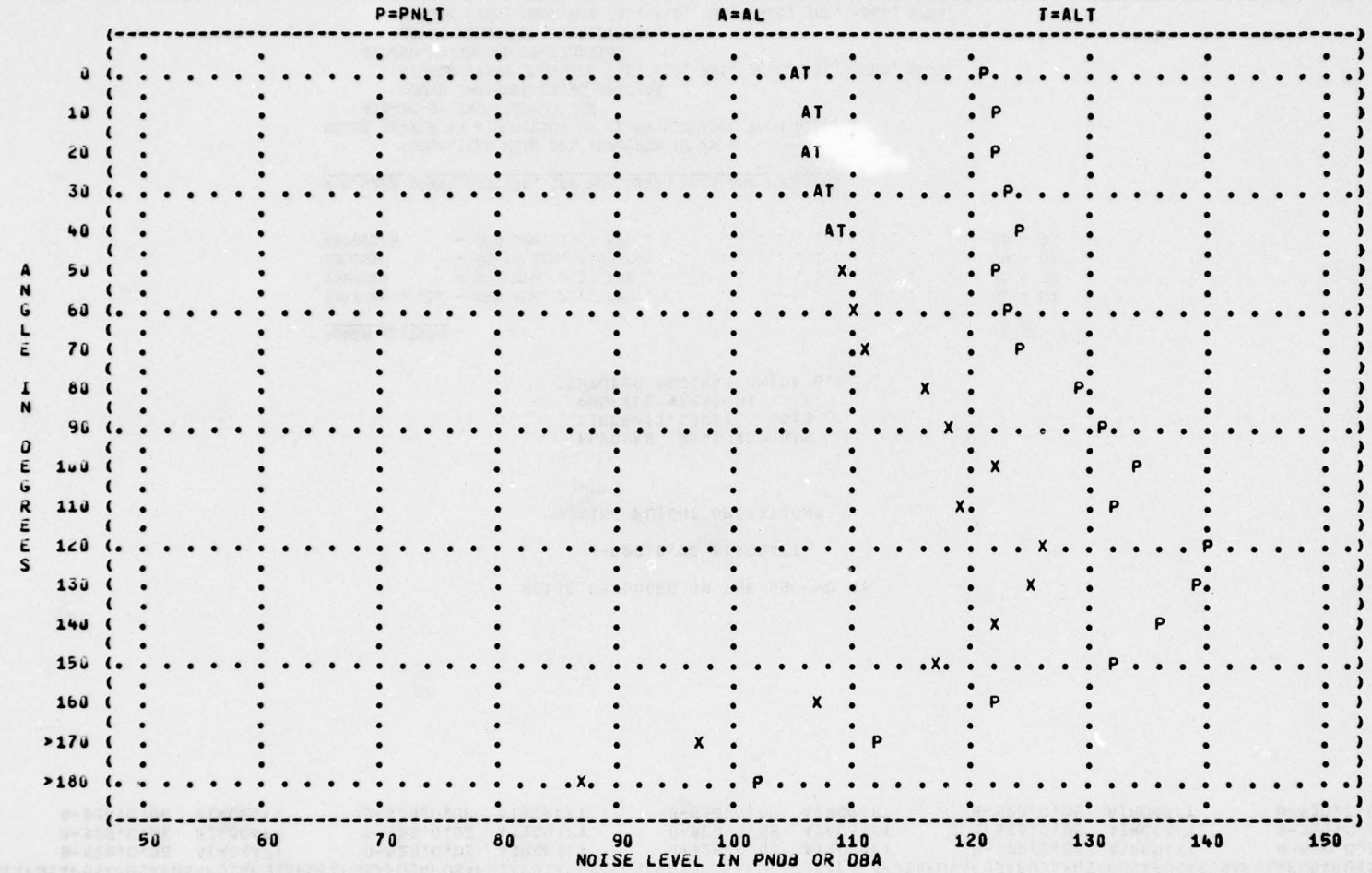
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
B-1 AIRCRAFT
ENG. YF101-GE-100
GROUND RUNUP

OPERATION:
FULL AUGMENTATION (A/B)
SINGLE ENGINE 97.6% RPM
GROUND RUNUP
40-60 INTERPOLATED

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-039-001
RUN 04
AIRCRAFT CODE 039
OPERATION CODE 00103
PROFILE VERSION A
19 JUL 76
PAGE J4



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAF B-52B,C,DE AIRCRAFT B-52B,C,DE AIRCRAFT B-52B,C,DE AIRCRAFT B-52B,C,DE AIRCRAFT B-52B,C,DE

NOISE PRODUCED ON THE GROUND BY

B-52B,C,DE AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 519
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

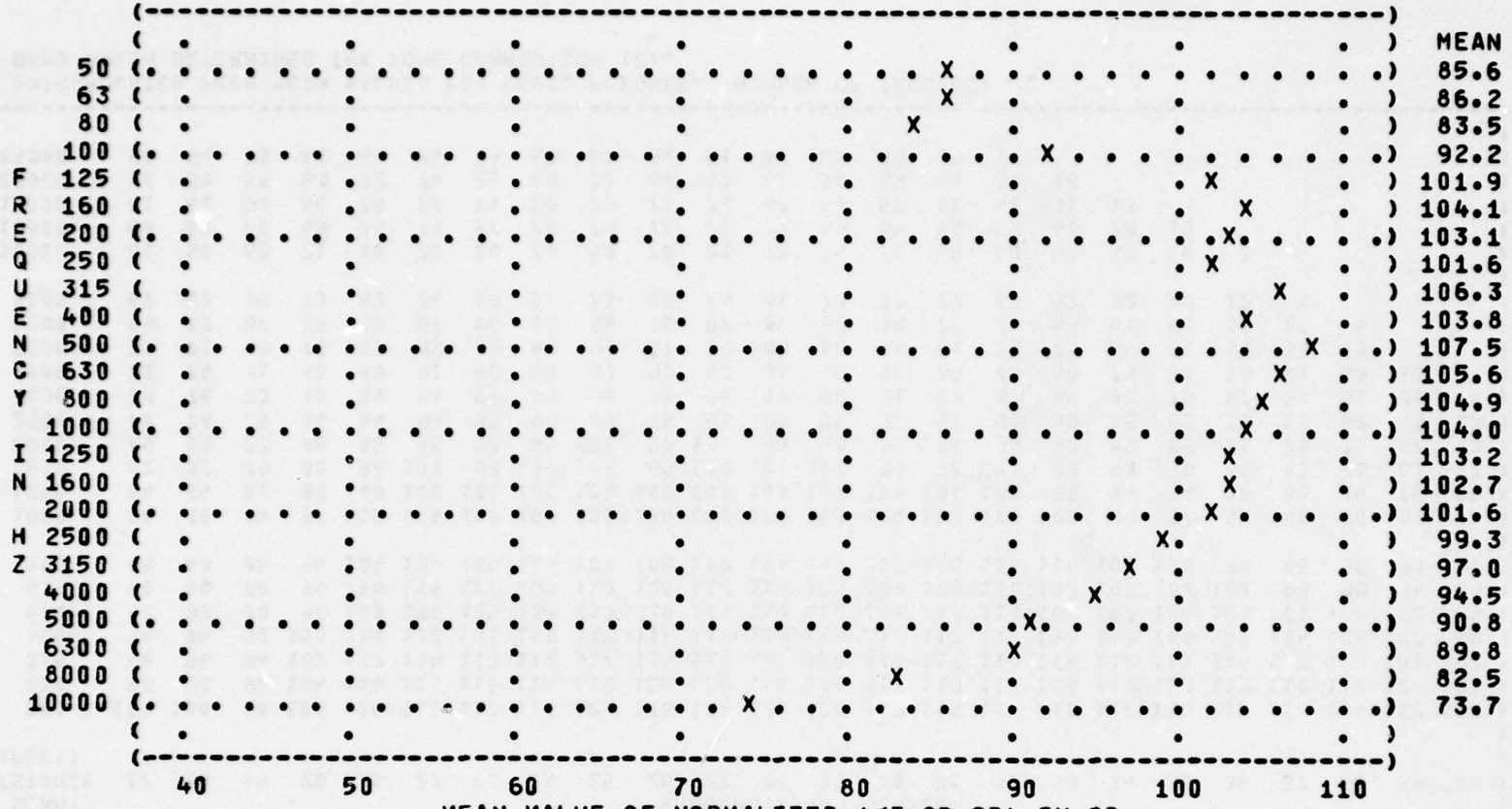
POWER SETTING		PAGE
TAKEOFF - WET	- 94% RPM, 2.77 EPR	61 - 69
TAKEOFF	- 94% RPM, 2.37 EPR	70 - 78
CRUISE	- 83.5% RPM, 1.48 EPR	79 - 87
APPROACH	- 86% RPM, 1.57 EPR	88 - 96

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
AIR-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF B-52B,C,DE AIRCRAFT B-52B,C,DE AIRCRAFT B-52B,C,DE AIRCRAFT B-52B,C,DE AIRCRAFT B-52B,C,DE



B-52B,C,DE TAKEOFF POWER-WET 94 % RPM 2.77 EPR

AIRSPEED = 170 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-519-102-201276

PNLT = 125.4 PNDB
PNL = 124.8 PNDB
ALT = 113.9 DBA
AL = 113.3 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 519
OPS CODE: 102
PROFILE VER: A
20 DEC 76
PAGE H1

AIRCRAFT: B-528,C,DE

OPERATION:
TAKEOFF POWER-WET
94 % RPM 2.77 EPR
AIRSPEED = 170 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																								
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	100	100	98	106	116	118	117	116	121	118	122	120	120	119	119	119	118	117	116	115	112	114	112	110
250	98	98	96	104	114	116	115	114	119	116	120	118	118	117	117	117	116	114	113	112	110	112	109	107
315	96	96	94	102	112	114	113	112	117	114	118	116	116	115	115	114	114	112	111	110	107	109	106	103
400	94	94	92	100	110	112	111	110	115	112	116	114	114	113	112	112	112	110	108	107	104	106	102	99
500	92	92	90	98	108	110	109	108	113	110	114	112	112	111	110	110	109	107	106	104	101	102	98	94
630	90	90	88	96	106	108	107	106	110	108	112	110	109	109	108	108	107	105	103	101	98	99	94	88
800	88	88	86	94	104	106	105	104	108	106	110	108	107	106	106	105	104	102	100	98	95	95	88	81
1000	86	86	84	92	102	104	103	102	106<	104	108	106	105	104	103	103	102	99	97	95	91	90	83	74
1250	84	84	81	90	100	102	101	100	104	102	105	103	103	102	101	100	99	96	94	90	86	84	76	64
1600	82	82	79	88	98	100	99	97	102	99	103	101	100	99	98	97	96	93	90	86	81	78	67	53
2000	80	80	77	86	96	98	97	95	100	97	101	99	98	96	95	94	92	89	85	81	75	71	57	40
2500	77	78	75	84	94	96	95	93	98	95	98	96	95	94	92	91	89	85	80	75	69	62	45	23
3150	75	76	73	82	91	94	92	91	95	92	96	94	92	91	89	87	85	80	75	67	61	51	31	3
4000	73	74	71	80	89	91	90	88	93	90	93	91	89	87	85	83	80	75	68	59	51	38	13	
5000	71	72	69	78	87	89	88	86	90	87	90	88	86	84	81	79	75	69	60	49	39	23		
6300	69	70	67	75	85	87	86	84	88	85	87	85	82	80	77	74	69	61	51	36	25	4		
8000	67	68	65	73	83	84	83	81	85	82	84	81	78	75	72	67	62	52	40	22	8			
10000	65	65	62	71	80	82	80	78	82	78	81	77	74	70	66	60	53	42	26	3				
12500	63	63	60	69	78	79	78	75	79	75	77	73	69	64	59	52	43	29	10					
16000	61	61	58	66	75	77	75	72	75	71	72	67	63	57	51	42	31	13						
20000	58	58	55	63	72	74	71	69	71	66	67	62	56	49	41	30	16							
25000	56	56	53	61	69	70	68	65	67	61	61	55	48	39	29	15								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-52B,C,DE

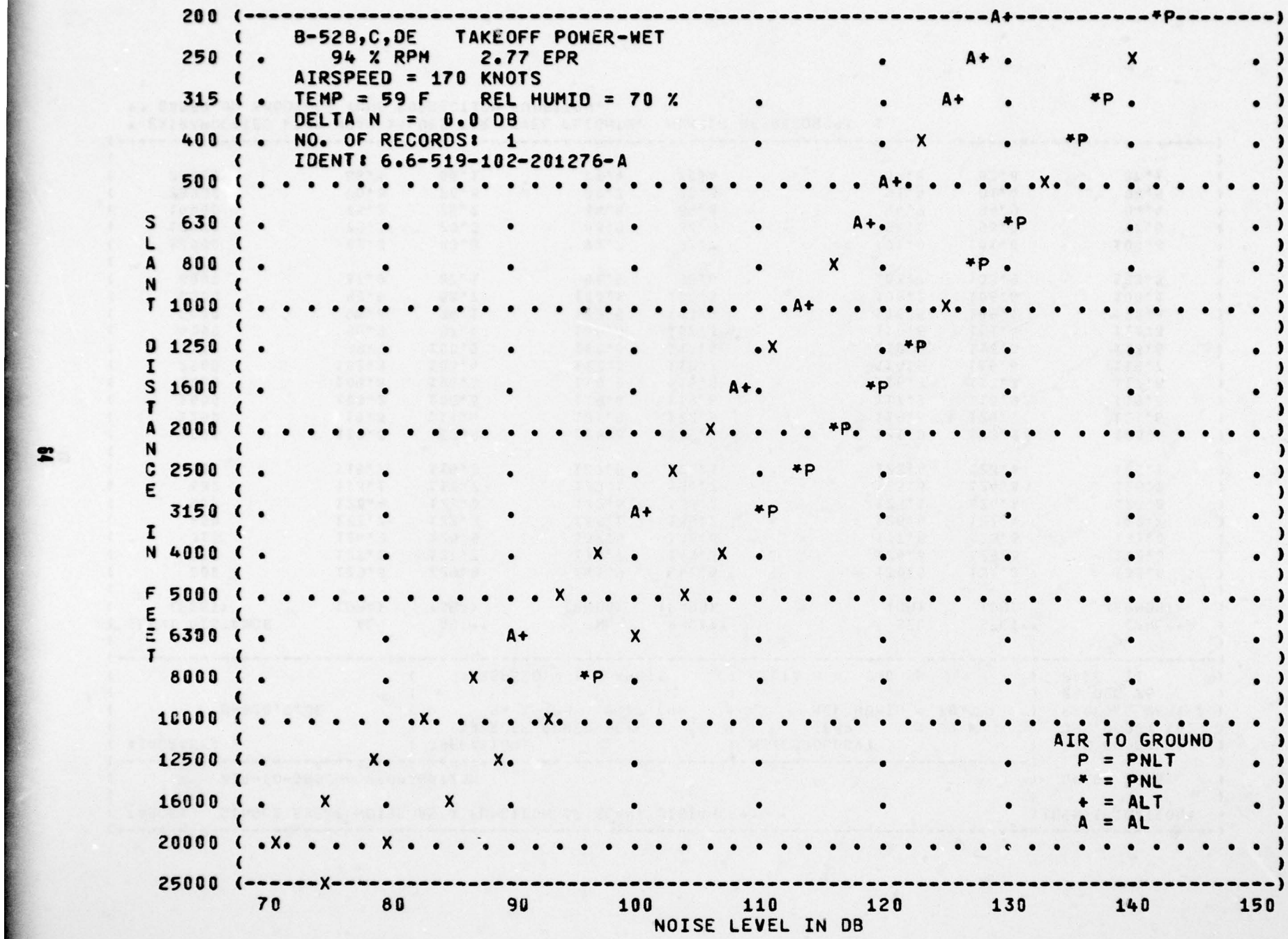
OPERATION:
TAKEOFF POWER-WET
94 % RPM 2.77 EPR
AIRSPEED = 170 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 519
OPS CODE: 102
PROFILE VER: A
20 DEC 76
PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	129.3	129.9	141.9	142.5	130.0	131.0	133.6
250	127.1	127.7	139.7	140.3	128.8	129.8	132.3
315	124.9	125.5	137.4	138.0	127.6	128.6	131.0
400	122.7	123.3	135.1	135.7	126.4	127.4	129.7
500	120.4	121.0	132.6	133.2	125.1	126.1	128.2
630	118.1	118.7	130.1	130.7	123.8	124.8	126.7
800	115.7	116.3	127.5	128.1	122.4	123.4	125.1
1000	113.3	113.9	124.8	125.4	121.0	122.0	123.4
1250	110.8	111.4	121.9	122.5	119.5	120.5	121.6
1600	108.2	108.8	119.0	119.6	117.9	118.9	119.6
2000	105.6	106.2	116.0	116.6	116.3	117.3	117.6
2500	102.8	103.4	113.1	113.7	114.5	115.5	115.7
3150	99.9	100.5	110.0	110.6	112.6	113.6	113.6
4000	96.9	97.4	106.8	107.3	110.6	111.4	111.3
5000	93.8	94.1	103.5	103.9	108.5	109.1	108.8
6300	90.5	90.7	100.1	100.3	106.2	106.6	106.1
8000	87.0	87.1	96.5	96.6	103.7	103.9	103.3
10000	83.3	83.3	92.7	92.7	101.0	101.0	100.3
12500	79.3	79.3	88.9	88.9	98.0	98.0	97.5
16000	75.2	75.2	84.8	84.8	94.9	94.9	94.4
20000	70.8	70.8	80.3	80.3	91.4	91.4	90.9
25000	66.1	66.1	75.4	75.4	87.8	87.8	87.1

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-52B,C,DE TAKEOFF POWER-WET
94 % RPM 2.77 EPR
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-519-102-201276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB

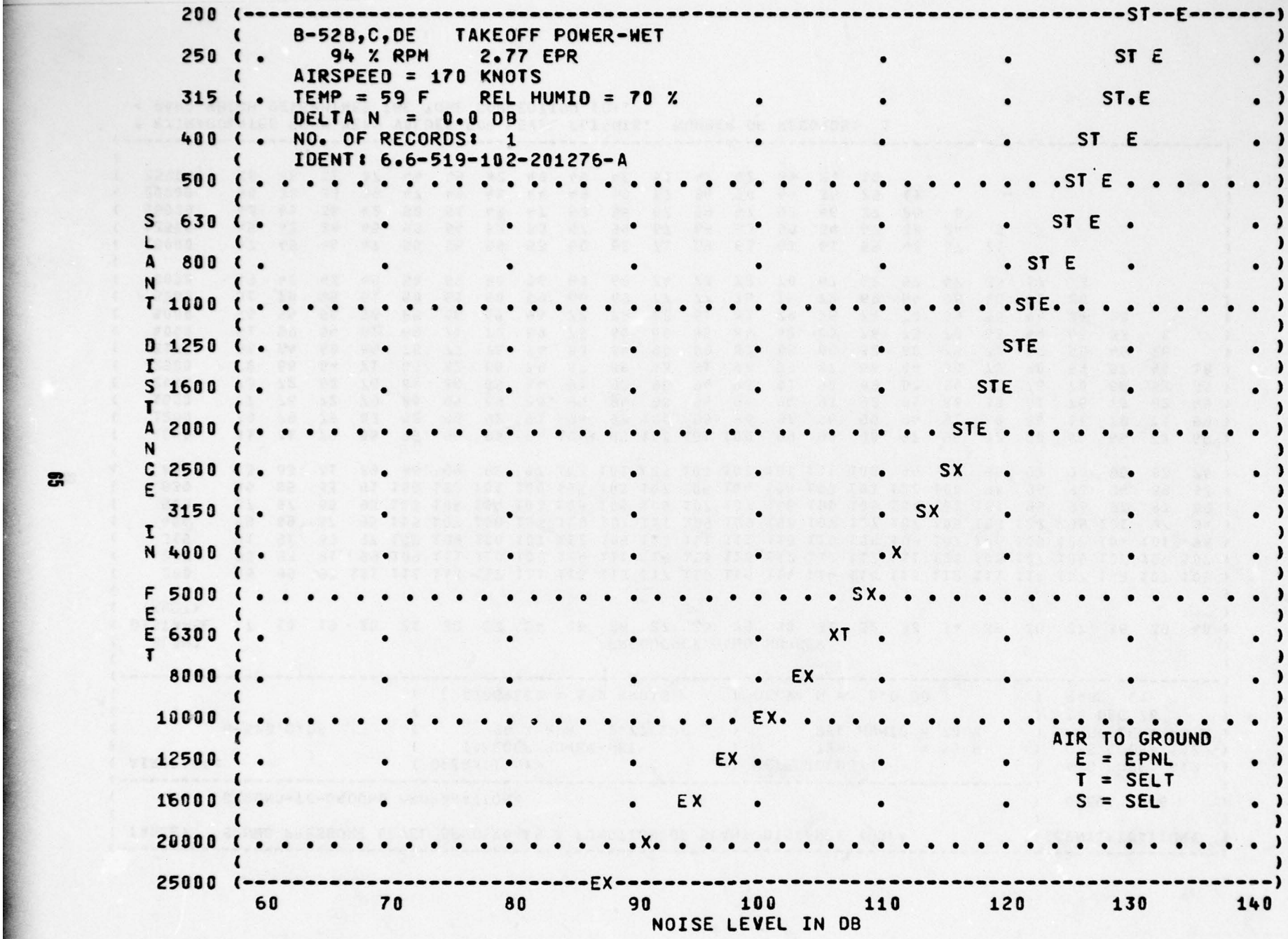

B-528,C,DE TAKEOFF POWER-WET
94 % RPM 2.77 EPR
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-519-102-201276-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-52B,C,DE

OPERATION:
TAKEOFF POWER-WET
94 % RPM 2.77 EPR
AIRSPEED = 170 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 519
OPS CODE: 102
PROFILE VER: A
20 DEC 76
PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	95	95	93	101	111	113	112	111	116	113	117	115	115	114	114	114	113	112	111	110	107	109	107	105
250	93	93	91	99	109	111	110	109	114	111	115	113	113	112	112	112	111	109	108	107	105	107	104	102
315	91	91	89	97	107	109	108	107	112	109	113	111	111	110	110	109	109	107	106	105	102	104	101	98
400	89	89	87	95	105	107	106	105	110	107	111	109	109	108	107	107	107	105	103	102	99	101	97	94
500	87	87	85	93	103	105	104	103	108	105	109	107	107	106	105	105	104	102	101	99	96	97	93	89
630	85	85	83	91	100	102	101	100	105	103	107	105	104	104	103	103	102	100	98	96	93	94	89	83
800	83	83	81	89	98	99	98	97	103	101	105	103	102	101	101	100	99	97	95	93	90	90	83	76
1000	81	81	79	86	95	96	95	94	101<	99	103	101	100	99	98	98	97	94	92	90	86	85	78	69
1250	79	79	75	83	92	93	92	91	98	97	100	98	98	97	96	95	94	91	89	85	81	79	71	59
1600	77	76	72	79	88	90	89	88	95	94	98	96	95	94	93	92	91	88	85	81	76	73	62	48
2000	73	72	68	76	84	86	85	84	91	92	96	94	93	91	90	89	87	84	80	76	70	66	52	35
2500	70	68	64	71	80	82	80	79	87	88	93	91	90	89	87	86	84	80	75	70	64	57	40	18
3150	66	64	60	66	75	77	76	74	83	84	90	89	87	86	84	82	80	75	70	62	56	46	26	
4000	61	59	54	61	69	71	70	69	78	80	86	85	84	82	80	78	75	70	63	54	46	33	8	
5000	56	54	50	56	65	66	65	64	72	74	82	81	81	79	76	74	70	64	55	44	34	18		
6300	51	50	45	51	60	61	60	59	66	69	77	77	76	75	72	69	64	56	46	31	20			
8000	49	48	43	49	58	59	58	56	63	66	74	73	72	70	67	62	57	47	35	17	3			
10000	47	45	40	47	55	56	55	53	60	62	71	69	68	65	61	55	48	37	21					
12500	45	43	38	45	53	54	52	50	57	59	67	65	63	59	54	47	38	24	5					
16000	43	41	36	42	50	51	49	47	53	55	62	59	57	52	46	37	26	8						
20000	40	38	33	39	47	48	46	44	49	50	57	54	50	44	36	25	11							
25000	38	36	31	37	44	45	42	40	45	45	51	47	42	34	24	10								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
B-52B,C,DE

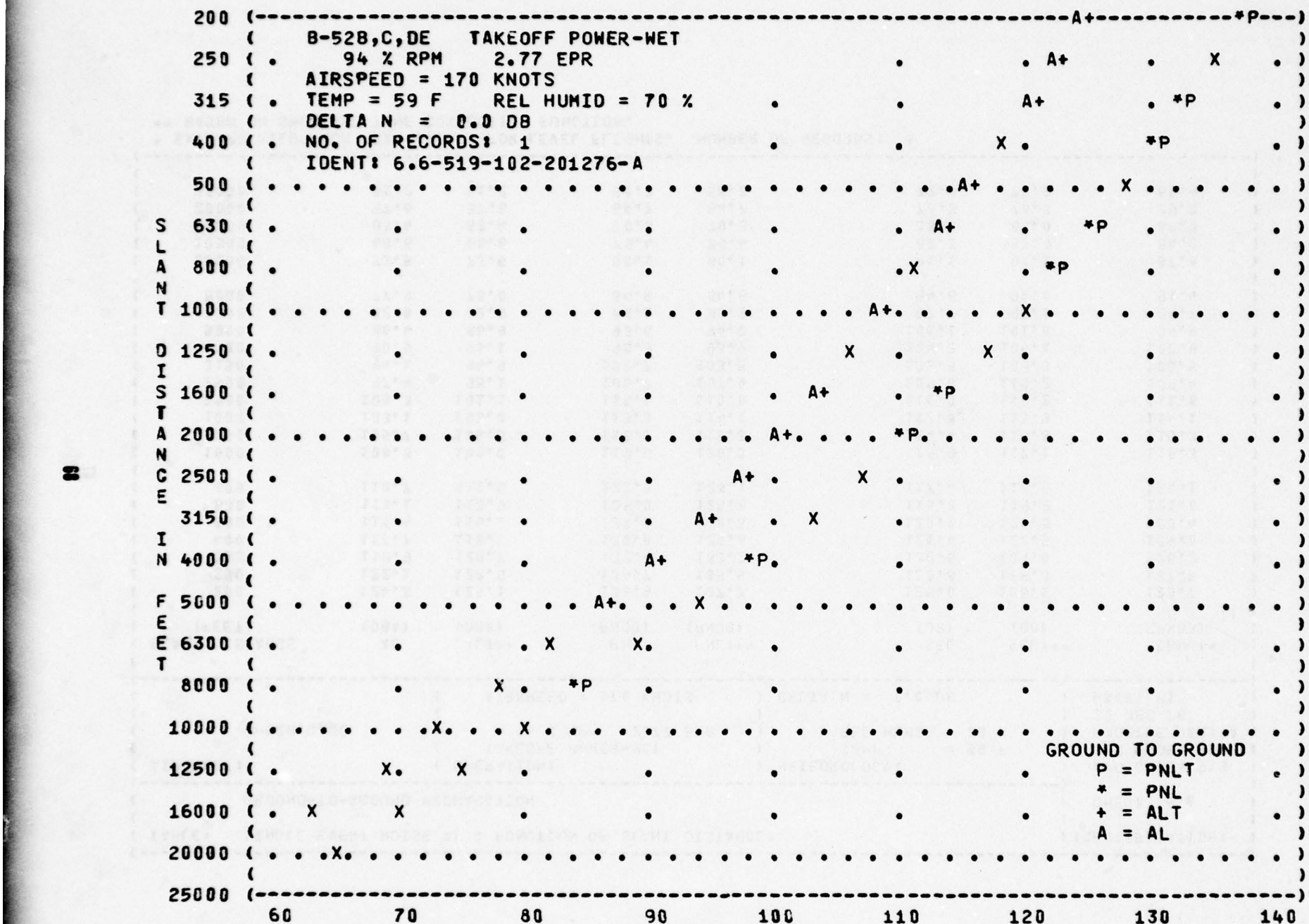
OPERATION:
TAKEOFF POWER-WET
94 % RPM 2.77 EPR
AIRSPEED = 170 KNOTS

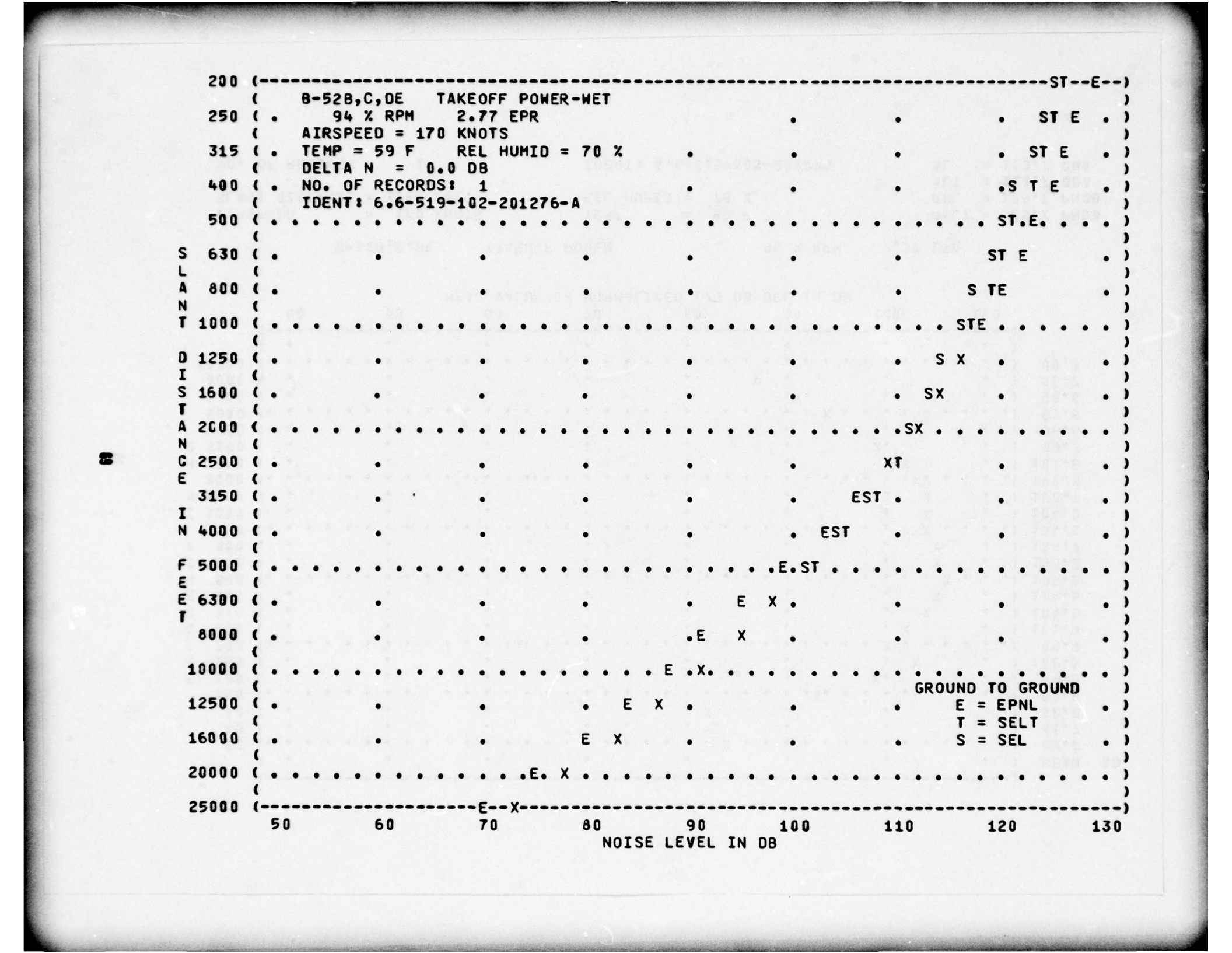
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

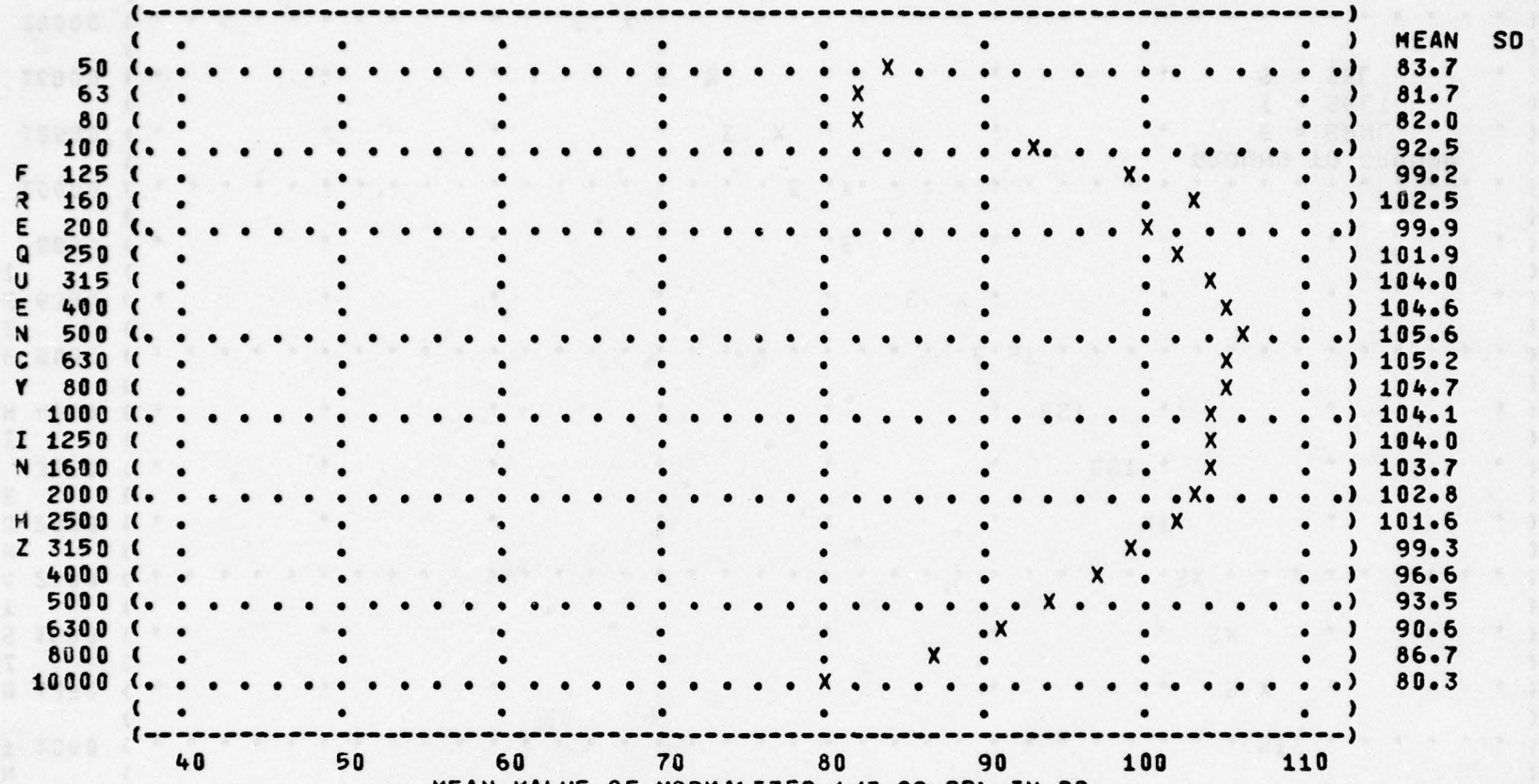
A/C CODE: 519
OPS CODE: 102
PROFILE VER: A
20 DEC 76
PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	124.3	125.1	136.9	137.7	125.0	126.1	128.7
250	122.1	122.9	134.7	135.5	123.8	125.0	127.5
315	119.9	120.7	132.4	133.2	122.6	123.8	126.2
400	117.7	118.5	130.0	130.8	121.4	122.5	124.8
500	115.4	116.2	127.6	128.3	120.1	121.3	123.4
630	113.1	113.9	125.0	125.8	118.8	119.9	121.8
800	110.7	111.5	122.3	123.1	117.4	118.6	120.1
1000	108.3	109.0	119.5	120.3	115.9	117.1	118.3
1250	105.7	106.5	116.5	117.3	114.4	115.6	116.3
1600	103.1	103.8	113.3	114.1	112.8	113.9	114.1
2000	100.3	101.1	110.1	110.8	111.0	112.2	111.8
2500	97.4	98.1	106.7	107.4	109.0	110.2	109.4
3150	94.1	94.9	102.7	103.5	106.8	108.0	106.5
4000	90.5	91.1	98.3	98.9	104.2	105.1	102.9
5000	86.4	86.9	93.6	94.0	101.1	101.8	98.9
6300	82.0	82.3	88.6	88.9	97.7	98.1	94.7
8000	77.9	78.0	84.5	84.6	94.6	94.8	91.4
10000	73.5	73.5	80.1	80.1	91.1	91.1	87.8
12500	68.6	68.6	75.4	75.4	87.3	87.3	84.0
16000	63.4	63.4	70.3	70.3	83.0	83.0	80.0
20000	57.6	57.6	64.7	64.7	78.3	78.3	75.3
25000	51.2	51.2	58.3	58.3	72.9	72.9	69.9

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-52B,C,DE TAKEOFF POWER-WET
94 % RPM 2.77 EPR
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-519-102-201276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB


B-52B,C,DE TAKEOFF POWER-WET
94 % RPM 2.77 EPR
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-519-102-201276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB



B-52B,C,DE TAKEOFF POWER 94 % RPM 2.37 EPR

AIRSPEED = 170 KNOTS
SLANT DISTANCE = 1000 FEET
NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %
IDENT: 6.6-519-103-201276

PNLT = 125.7 PNDB
PNL = 125.7 PNDB
ALT = 113.7 DBA
AL = 113.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: B-52B,C,DE

OPERATION: TAKEOFF POWER 94 % RPM 2.37 EPR AIRSPEED = 170 KNOTS

METEOROLOGY: TEMP = 59 F REL HUMID = 70 % DELTA N = 0.0 DB

A/C CODE: 519
OPS CODE: 103
PROFILE VER: A
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PAGE H2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	98	96	96	107	113	117	114	116	118	119	120	120	120	119	120	120	119	119	118	117	115	115	116	117
250	96	94	94	105	111	115	112	114	116	117	118	118	118	117	117	118	117	117	116	115	113	113	113	113
315	94	92	92	103	109	113	110	112	114	115	116	116	116	115	115	115	115	114	113	112	110	110	110	110
400	92	90	90	101	107	111	108	110	112	113	114	114	113	113	113	113	113	112	111	109	107	107	106	105
500	90	88	88	99	105	109	106	108	110	111	112	112	111	111	111	111	110	110	108	107	104	103	102	100
630	88	86	86	97	103	107	104	106	108	109	110	110	109	109	109	109	108	107	105	104	101	99	98	95
800	86	84	84	95	101	105	102	104	106	107	108	107	107	106	106	106	105	104	102	100	97	95	93	88
1000	84	82	82	93	99	103	100	102	104	105	106	105	105	104	104	104	103	102	99	97	94	91	87	80
1250	82	80	80	90	97	100	98	100	102	102	103	103	102	102	102	101	100	99	96	93	89	85	80	71
1600	80	78	78	88	95	98	96	98	100	100	101	101	100	99	99	98	97	95	92	88	84	79	71	60
2000	78	76	76	86	93	96	94	96	98	98	99	98	97	97	96	95	94	91	88	83	78	71	62	46
2500	76	74	74	84	91	94	91	93	95	96	96	96	95	94	93	92	90	87	83	77	71	63	50	30
3150	74	71	72	82	89	92	89	91	93	93	94	93	92	91	90	88	86	83	77	69	63	52	35	9
4000	71	69	70	80	87	90	87	89	91	91	91	90	89	88	86	84	81	77	70	61	54	39	17	
5000	69	67	68	78	84	88	85	86	88	88	89	87	86	84	82	80	76	71	63	51	42	24		
6300	67	65	65	76	82	85	82	84	86	85	86	84	82	80	78	75	70	63	53	39	28	4		
8000	65	63	63	73	80	83	80	81	83	82	82	81	78	76	73	68	63	55	42	24	11			
10000	63	61	61	71	78	80	77	79	80	79	79	77	74	70	67	61	54	44	28	5				
12500	61	59	59	69	75	78	74	76	77	76	75	72	69	64	60	53	44	31	12					
16000	59	56	56	66	72	75	71	72	73	72	70	67	63	57	51	43	32	16						
20000	56	54	54	64	70	72	68	69	69	67	65	61	56	49	42	31	17							
25000	54	51	51	61	67	69	65	65	65	62	59	54	47	39	30	16								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
B-52B,C,DE

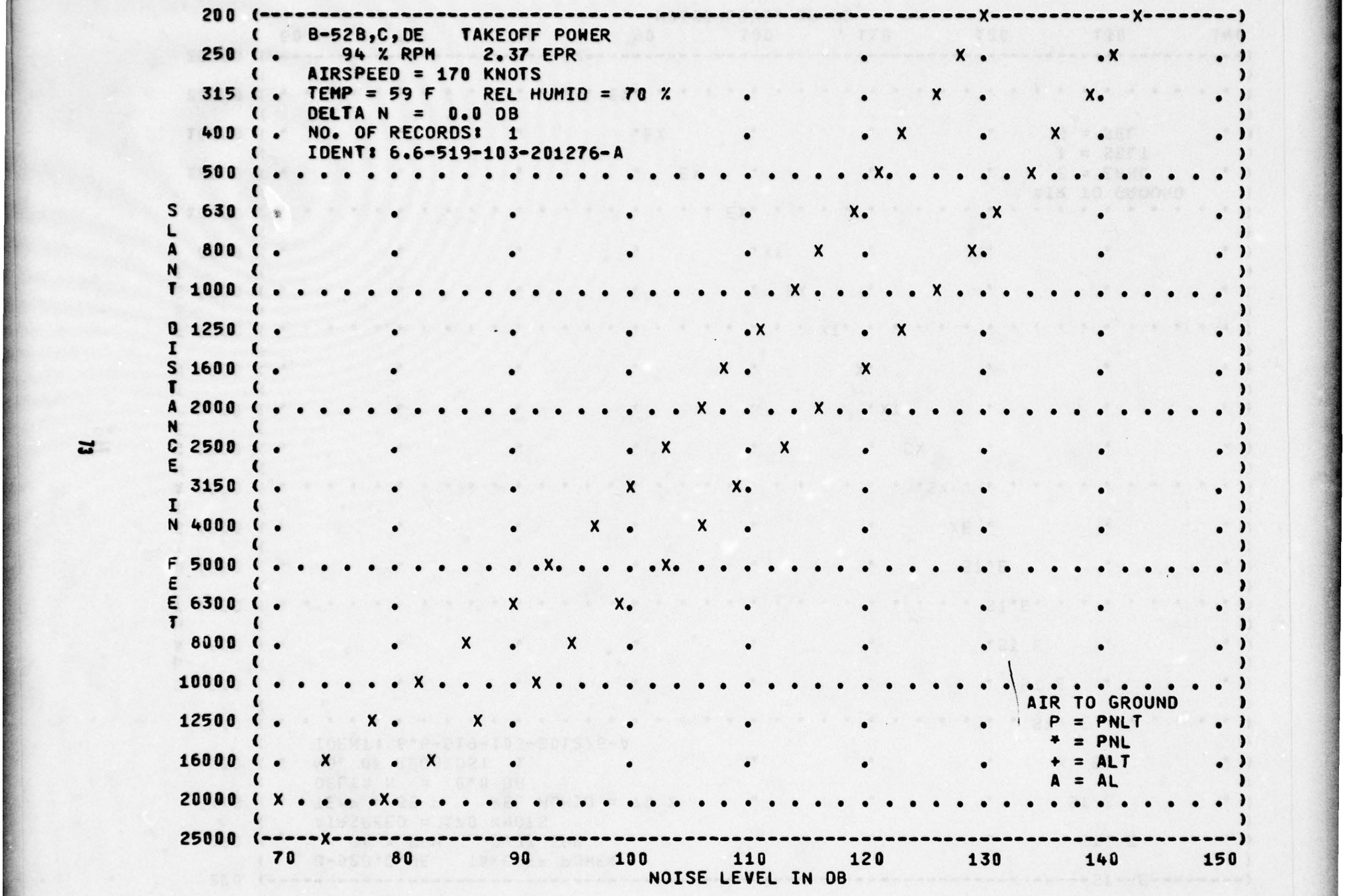
OPERATION:
TAKEOFF POWER
94 % RPM 2.37 EPR
AIRSPEED = 170 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 519
OPS CODE: 103
PROFILE VER: A
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SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	130.2	130.2	143.3	143.3	129.3	130.1	133.1
250	127.9	127.9	141.0	141.0	128.1	128.9	131.8
315	125.7	125.7	138.7	138.7	126.8	127.6	130.5
400	123.4	123.4	136.3	136.3	125.5	126.3	129.1
500	121.0	121.0	133.8	133.8	124.2	125.0	127.6
630	118.6	118.6	131.2	131.2	122.8	123.6	126.0
800	116.2	116.2	128.5	128.5	121.3	122.1	124.3
1000	113.7	113.7	125.7	125.7	119.8	120.6	122.5
1250	111.1	111.1	122.7	122.7	118.2	119.0	120.5
1600	108.4	108.4	119.6	119.6	116.5	117.3	118.4
2000	105.6	105.6	116.3	116.3	114.8	115.6	116.1
2500	102.7	102.7	112.9	112.9	112.9	113.7	113.7
3150	99.7	99.7	109.4	109.4	110.9	111.7	111.2
4000	96.6	96.6	106.1	106.1	108.7	109.4	108.7
5000	93.3	93.3	102.6	102.6	106.4	106.9	106.1
6300	89.8	89.8	99.1	99.1	104.0	104.3	103.4
8000	86.2	86.2	95.4	95.4	101.3	101.5	100.5
10000	82.4	82.4	91.5	91.5	98.5	98.5	97.5
12500	78.3	78.3	87.5	87.5	95.5	95.5	94.5
16000	74.1	74.1	83.1	83.1	92.2	92.2	91.1
20000	69.5	69.5	78.5	78.5	88.7	88.7	87.5
25000	64.7	64.7	73.6	73.6	84.9	84.9	83.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-52B,C,DE TAKEOFF POWER
94 % RPM 2.37 EPR
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-519-103-201276-A
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB

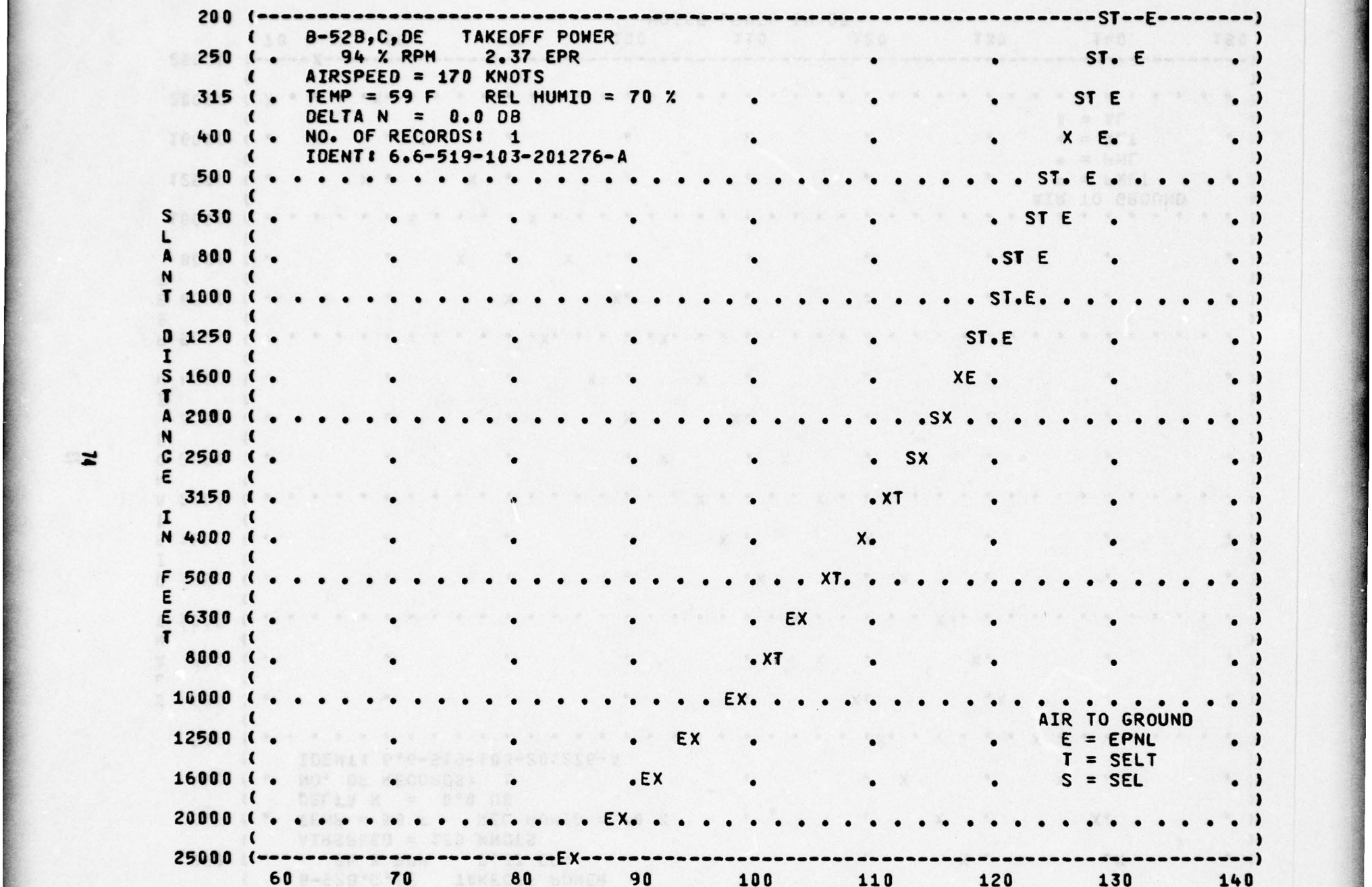

B-52B,C,DE TAKEOFF POWER
94 % RPM 2.37 EPR
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-519-103-201276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
AIR TO GROUND
E = EPNL
T = SELT
S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-52B,C,DE

OPERATION:
TAKEOFF POWER
94 % RPM 2.37 EPR
AIRSPEED = 170 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 519
OPS CODE: 103
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SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																								
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	93	91	91	102	108	112	109	111	113	114	115	115	115	114	115	115	114	114	113	112	110	110	111	112
250	91	89	89	100	106	110	107	109	111	112	113	113	113	112	112	113	112	112	111	110	108	108	108	108
315	89	87	87	98	104	108	105	107	109	110	111	111	111	110	110	110	110	109	108	107	105	105	105	105
400	87	85	85	96	102	105	103	105	107	108	109	109	108	108	108	108	108	107	106	104	102	102	101	100
500	85	83	83	94	100	103	100	103	105	106	107	107	106	106	106	106	105	105	103	102	99	98	97	95
630	83	81	81	92	98	100	98	100	103	104	105	105	104	104	104	104	103	102	100	99	96	94	93	90
800	81	79	79	89	95	98	95	98	101	102	103	102	102	101	101	101	100	99	97	95	92	90	88	83
1000	79	77	77	86	92	95	92	95	99	100	101	100	100	99	99	99	98	97	94	92	89	86	82	75
1250	77	75	74	83	89	92	89	91	96	97	98	98	97	97	97	96	95	94	91	88	84	80	75	66
1600	75	71	71	80	85	88	85	88	93	95	96	96	95	94	94	93	92	90	87	83	79	74	66	55
2000	72	68	67	76	82	84	82	84	89	93	94	93	92	92	91	90	89	86	83	78	73	66	57	41
2500	68	64	63	72	77	80	77	80	85	89	91	91	90	89	88	87	85	82	78	72	66	58	45	25
3150	64	60	58	67	72	75	72	75	81	85	88	88	87	86	85	83	81	78	72	64	58	47	30	4
4000	60	54	53	61	67	69	67	69	75	80	84	85	84	83	81	79	76	72	65	56	49	34	12	
5000	54	50	48	56	62	65	62	64	69	75	80	81	80	79	77	75	71	66	58	46	37	19		
6300	49	45	43	52	57	60	57	59	64	69	76	76	76	75	73	70	65	58	48	34	23			
8000	47	43	41	49	55	57	54	56	61	66	72	73	72	71	68	63	58	50	37	19	6			
10000	45	41	39	47	53	55	52	54	58	63	69	69	68	65	62	56	49	39	23	0				
12500	43	39	37	45	50	52	49	51	55	60	65	64	63	59	55	48	39	26	7					
16000	41	36	34	42	47	49	46	47	51	56	60	59	57	52	46	38	27	11						
20000	38	34	32	40	45	46	43	44	47	51	55	53	50	44	37	26	12							
25000	36	31	29	37	42	43	39	40	43	46	49	46	41	34	25	11								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
B-528,C,DE

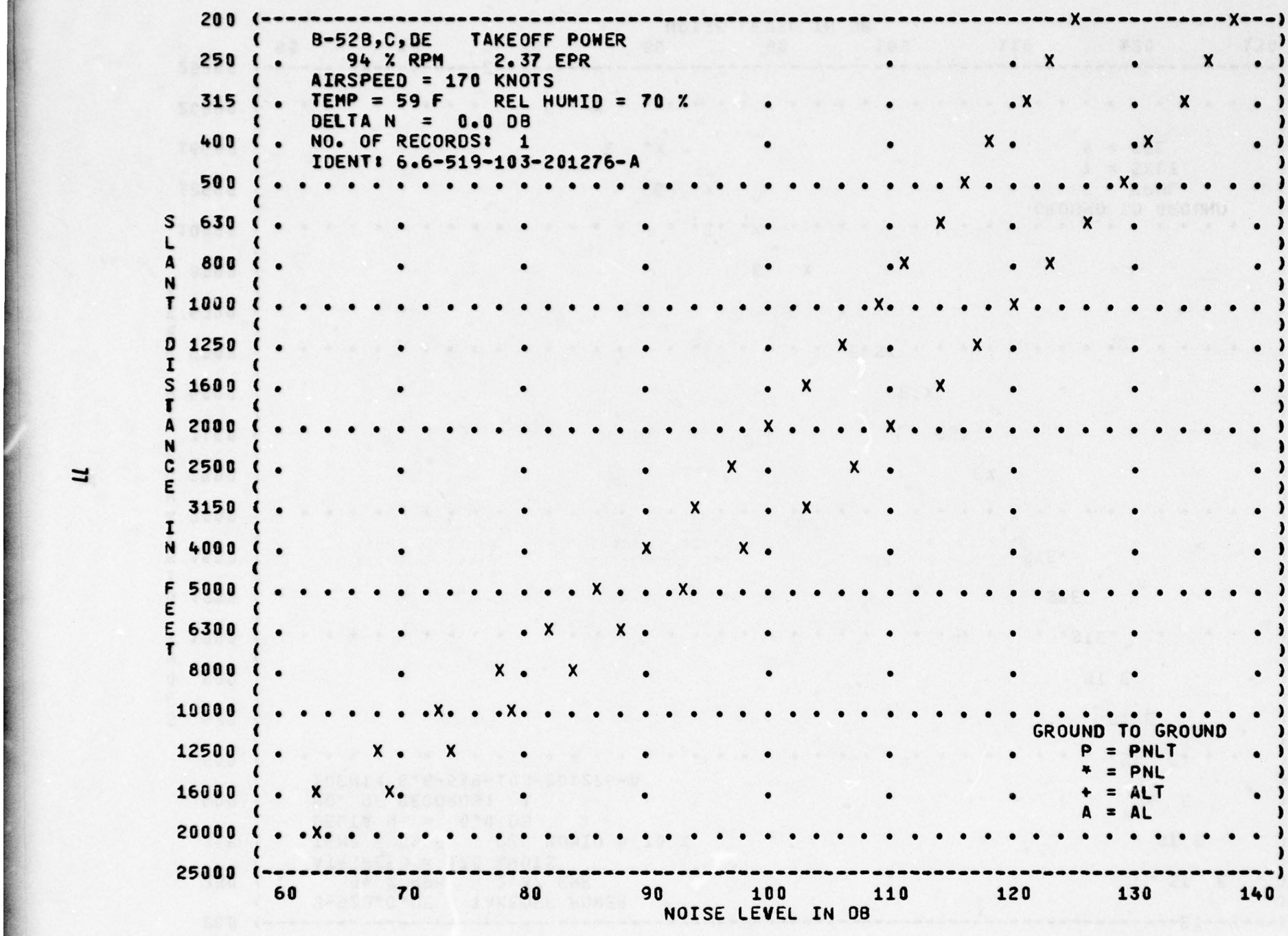
OPERATION:
TAKEOFF POWER
94 % RPM 2.37 EPR
AIRSPEED = 170 KNOTS

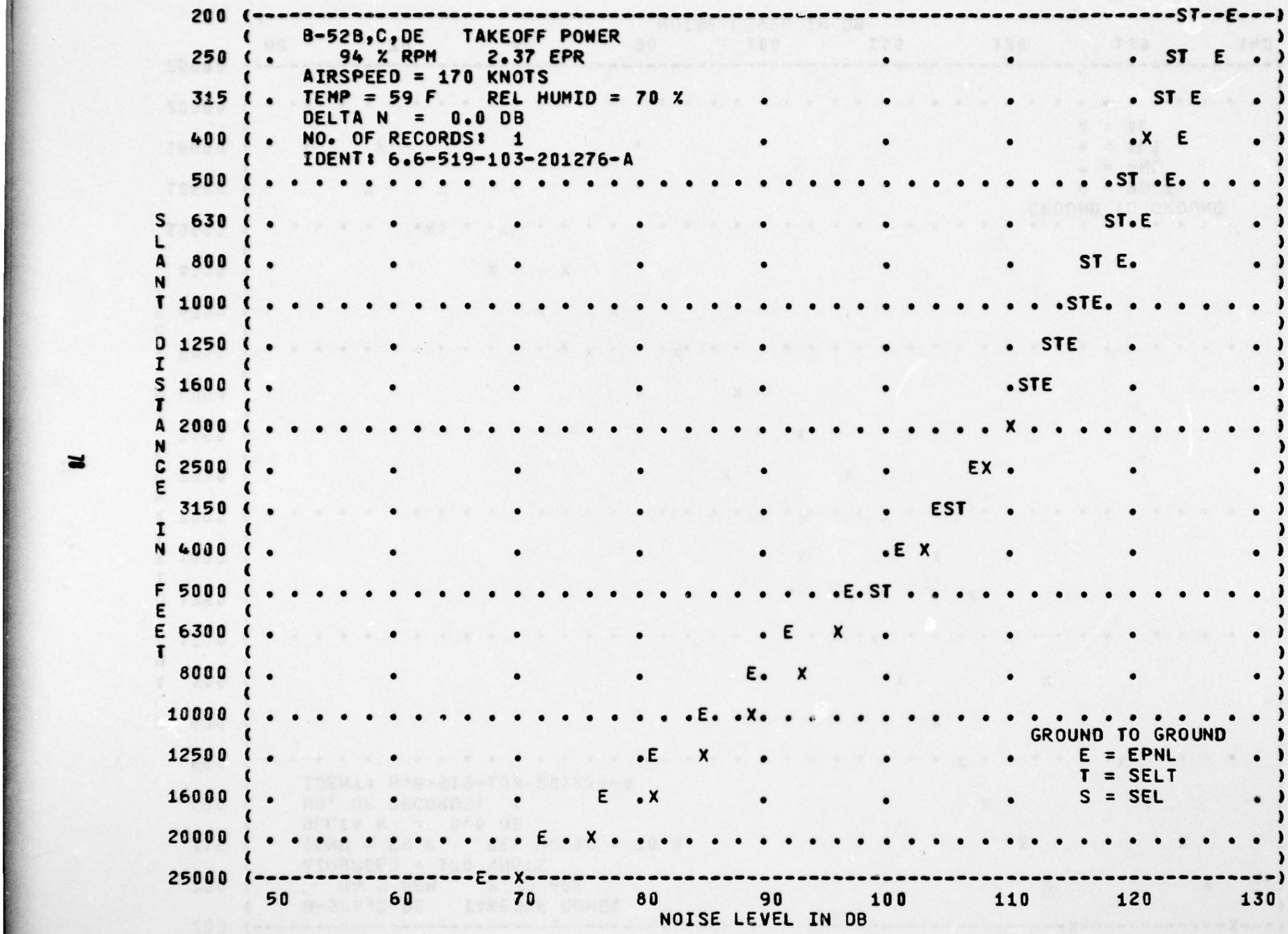
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

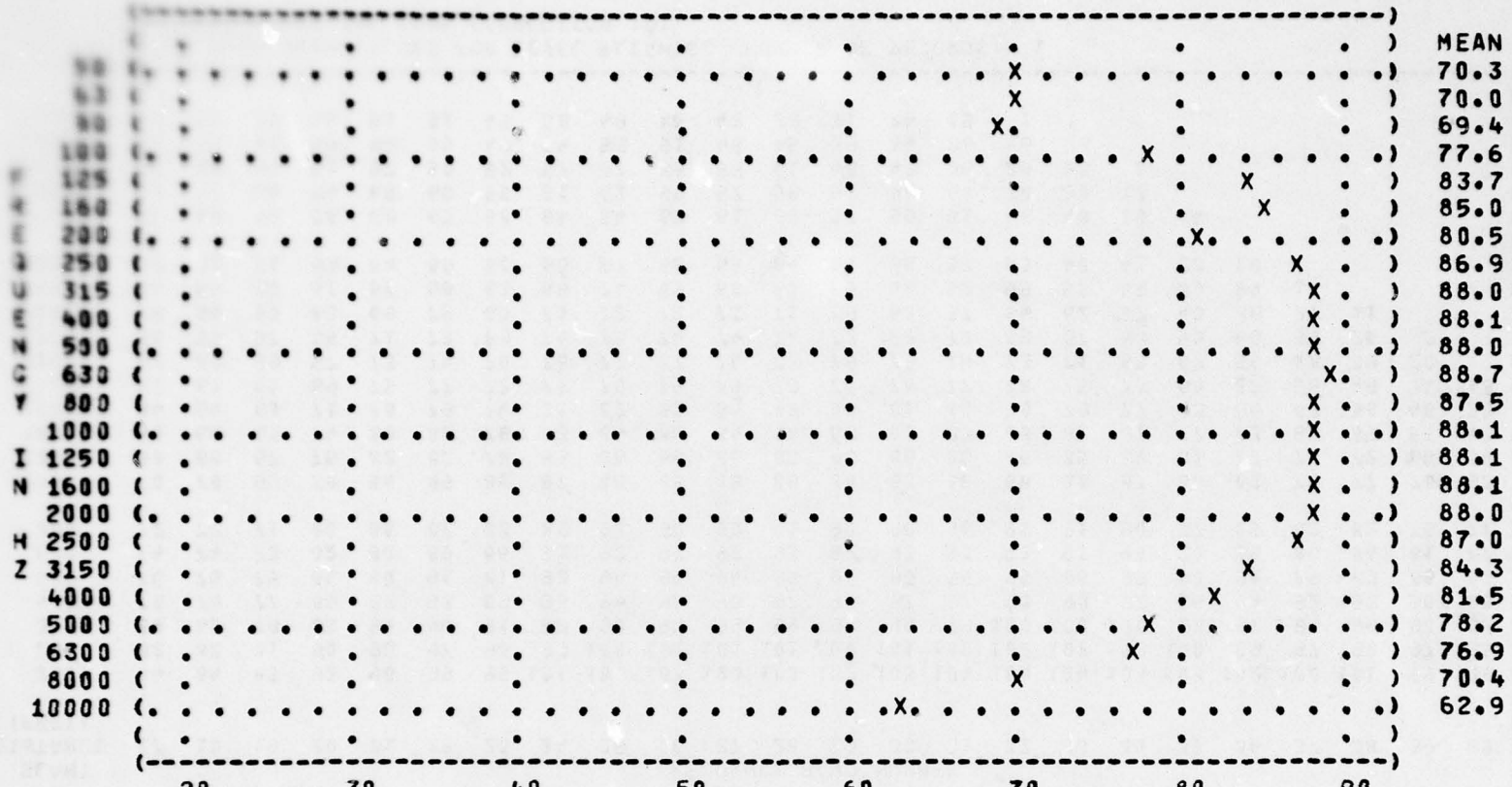
A/C CODE: 519
OPS CODE: 103
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PAGE M2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	125.2	125.2	138.3	138.3	124.3	125.1	128.1
250	122.9	122.9	136.0	136.0	123.1	123.9	126.8
315	120.7	120.7	133.7	133.7	121.8	122.6	125.5
400	118.4	118.4	131.3	131.3	120.5	121.3	124.1
500	116.0	116.0	128.8	128.8	119.2	120.0	122.6
630	113.6	113.6	126.2	126.2	117.8	118.6	120.9
800	111.2	111.2	123.4	123.4	116.3	117.1	119.2
1000	108.6	108.6	120.5	120.5	114.8	115.6	117.3
1250	106.0	106.0	117.4	117.4	113.1	113.9	115.2
1600	103.3	103.3	114.0	114.0	111.4	112.2	112.8
2000	100.4	100.4	110.5	110.5	109.6	110.4	110.3
2500	97.4	97.4	106.7	106.7	107.5	108.3	107.5
3150	94.1	94.1	102.6	102.6	105.2	106.0	104.4
4000	90.4	90.4	98.1	98.1	102.6	103.2	100.7
5000	86.3	86.3	93.2	93.2	99.4	99.9	96.6
6300	81.8	81.8	88.1	88.1	96.0	96.3	92.4
8000	77.6	77.6	83.7	83.7	92.7	92.9	88.9
10000	73.0	73.0	79.1	79.1	89.2	89.2	85.1
12500	68.0	68.0	74.3	74.3	85.2	85.2	81.3
16000	62.6	62.6	69.1	69.1	80.8	80.8	77.1
20000	56.7	56.7	63.3	63.3	75.8	75.8	72.3
25000	50.1	50.1	56.8	56.8	70.3	70.3	66.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-528,C,DE TAKEOFF POWER
94 % RPM 2.37 EPR
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-519-103-201276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB


B-528,C,DE TAKEOFF POWER
94 % RPM 2.37 EPR
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-519-103-201276-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB



B-52B,C,DE CRUISE POWER 83.5 % RPM 1.48 EPR

AIRSPEED = 250 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-519-104-201276

PNLT = 110.3 PNDB
PNL = 110.3 PNDB
ALT = 97.8 DBA
AL = 97.8 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-52B,C,DE

OPERATION:
CRUISE POWER
83.5 % RPM 1.48 EPR
AIRSPEED = 250 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 519
OPS CODE: 104
PROFILE VER: A
20 DEC 76

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	84	84	83	92	98	99	95	101	102	103	103	103	102	103	104	104	104	104	103	102	100	101	99	99
250	82	82	81	90	96	97	93	99	100	101	101	101	100	101	102	102	102	102	100	99	97	99	97	96
315	80	80	79	88	94	95	91	97	98	99	99	99	98	99	99	100	100	100	98	97	94	96	93	92
400	78	78	77	86	92	93	89	95	96	96	96	97	96	97	97	98	98	97	96	94	92	93	90	88
500	76	76	75	84	90	91	87	93	94	94	94	95	94	95	95	95	96	95	93	91	89	89	86	83
630	74	74	73	82	88	89	85	91	92	92	92	93	92	93	93	93	93	93	90	88	86	86	81	77
800	72	72	71	80	86	87	83	89	90	90	90	91	90	90	90	91	91	90	87	85	82	82	76	71
1000	70	70	69	78	84	85	81	87	88	88	88	89	88	88	88	88	88	87	84	82	78	77	70	63
1250	68	68	67	76	82	83	78	85	86	86	86	86	85	86	86	85	85	84	81	77	74	72	64	54
1600	66	66	65	74	80	81	76	83	84	84	84	84	83	83	83	83	82	81	77	73	69	65	55	43
2000	64	64	63	71	78	79	74	81	82	82	81	82	80	81	80	80	79	77	73	68	63	58	46	29
2500	62	62	61	69	75	77	72	78	79	79	79	79	78	78	77	76	75	73	68	62	56	49	34	13
3150	60	60	59	67	73	74	70	76	77	77	76	77	75	75	74	73	71	68	62	55	48	39	20	
4000	58	58	57	65	71	72	68	74	75	74	74	74	72	72	70	69	67	63	56	46	39	26	2	
5000	56	56	55	63	69	70	65	71	72	72	71	71	69	68	67	64	62	57	48	36	27	11		
6300	54	54	53	61	67	68	63	69	70	69	68	68	65	64	62	59	56	49	39	24	14			
8000	52	51	51	59	64	65	60	66	67	66	65	64	61	60	57	53	48	41	28	10				
10000	50	49	48	56	62	63	58	64	64	63	61	60	57	55	51	46	40	30	14					
12500	47	47	46	54	60	60	55	61	61	59	57	56	52	49	44	38	30	18						
16000	45	45	44	51	57	58	52	57	57	55	53	51	46	42	36	28	18	2						
20000	43	42	41	49	54	55	49	54	53	51	48	45	39	34	26	16	3							
25000	41	40	39	46	51	51	45	50	49	46	42	38	31	24	15	1								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
B-52B,C,DE

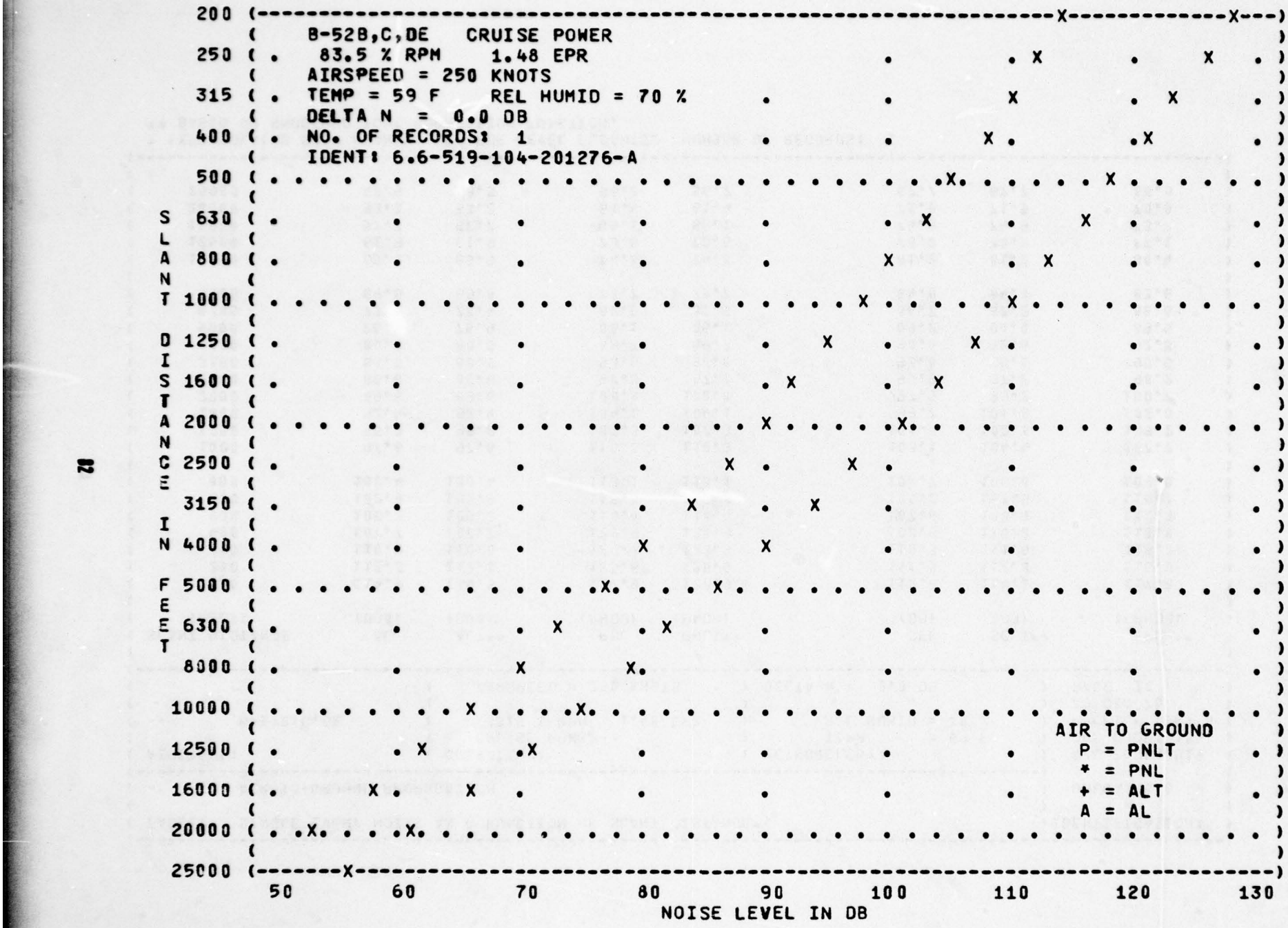
OPERATION:
CRUISE POWER
83.5 % RPM 1.48 EPR
AIRSPEED = 250 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 519
OPS CODE: 104
PROFILE VER: A
20 DEC 76
PAGE I3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	114.5	114.5	127.9	127.9	112.8	114.1	117.8
250	112.3	112.3	125.6	125.6	111.5	112.8	116.5
315	110.0	110.0	123.3	123.3	110.3	111.6	115.2
400	107.7	107.7	120.9	120.9	108.9	110.2	113.8
500	105.3	105.3	118.4	118.4	107.6	108.9	112.3
630	102.9	102.9	115.8	115.8	106.2	107.5	110.7
800	100.4	100.4	113.1	113.1	104.7	106.0	109.0
1000	97.8	97.8	110.3	110.3	103.1	104.4	107.2
1250	95.2	95.2	107.3	107.3	101.5	102.8	105.2
1600	92.4	92.4	104.1	104.1	99.7	101.0	103.0
2000	89.6	89.6	100.8	100.8	97.9	99.2	100.7
2500	86.6	86.6	97.3	97.3	95.9	97.2	98.2
3150	83.5	83.5	93.6	93.6	93.8	95.1	95.5
4000	80.3	80.3	89.7	89.7	91.6	92.6	92.3
5000	76.9	76.9	86.1	86.1	89.2	90.0	89.5
6300	73.4	73.4	82.5	82.5	86.7	87.2	86.6
8000	69.8	69.8	78.7	78.7	84.0	84.3	83.6
10000	65.9	65.9	74.8	74.8	81.2	81.2	80.4
12500	61.9	61.9	70.6	70.6	78.2	78.2	77.1
16000	57.7	57.7	66.1	66.1	74.9	74.9	73.7
20000	53.2	53.2	61.4	61.4	71.5	71.5	70.0
25000	48.5	48.5	56.2	56.2	67.7	67.7	65.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-52B,C,DE CRUISE POWER
83.5 % RPM 1.48 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-519-104-201276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

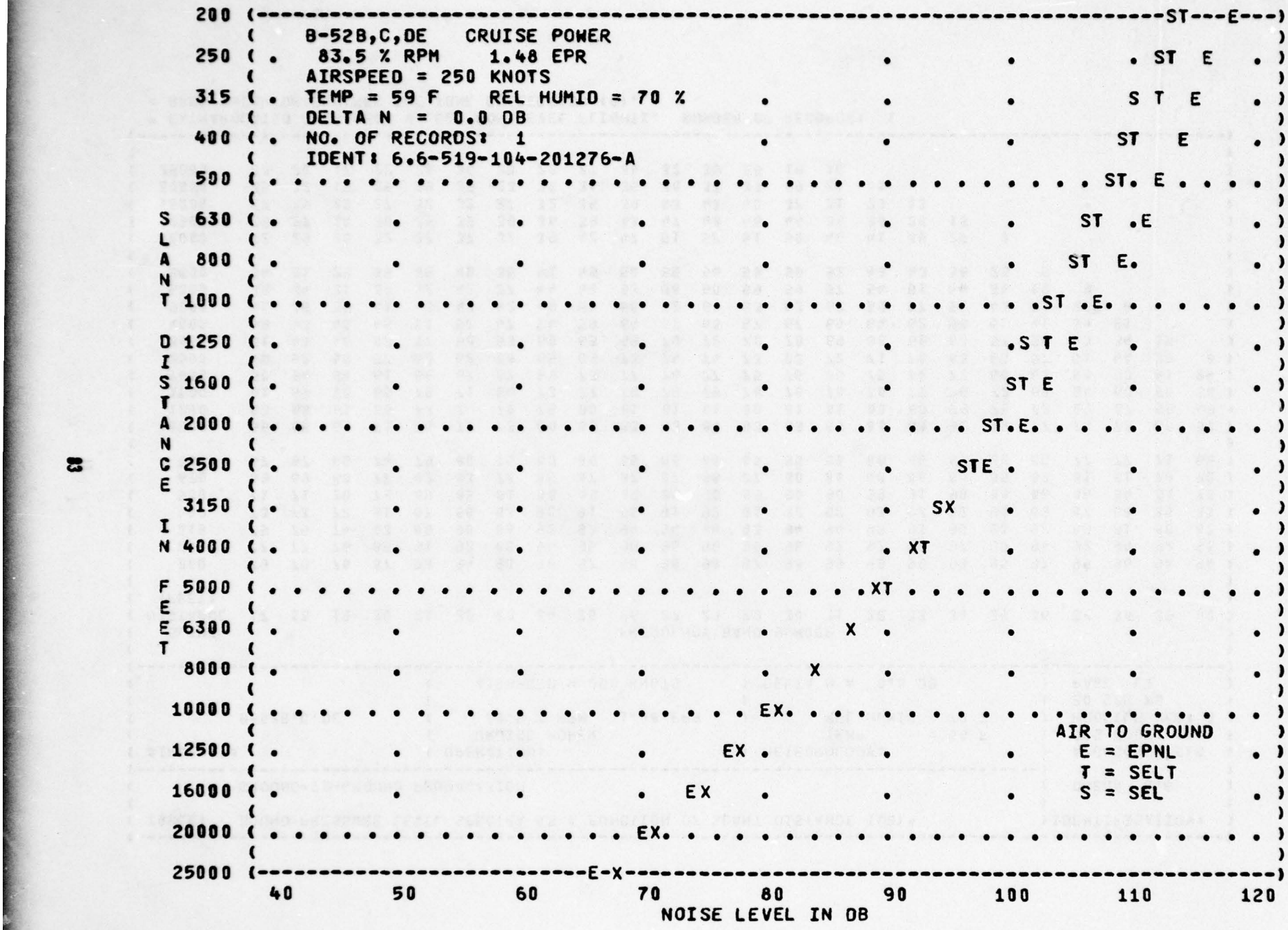

B-52B,C,DE CRUISE POWER
83.5 % RPM 1.48 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-519-104-201276-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-52B,C,DE

OPERATION:
CRUISE POWER
83.5 % RPM 1.48 EPR
AIRSPEED = 250 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 519
OPS CODE: 104
PROFILE VER: A
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PAGE L3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																								
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	79	79	78	87	93	94	90	96	97	98	98	98	97	98	99	99	99	99	98	97	95	96	94	94
250	77	77	76	85	91	92	88	94	95	96	96	96	95	96	97	97	97	97	95	94	92	94	92	91
315	75	75	74	83	89	90	86	92	93	94	94	94	93	94	94	95	95	95	93	92	89	91	88	87
400	73	73	72	81	87	88	83	90	91	91	91	92	91	92	92	93	93	92	91	89	87	88	85	83
500	71	71	70	79	85	85	81	88	89	89	89	90	89	90	90	90	91	90	88	86	84	84	81	78
630	69	69	68	77	82	83	78	85	87	87	87	88	87	88	88	88	88	88	85	83	81	81	76	72
800	67	67	66	74	79	80	76	83	85	85	85	86	85	85	85	86	86	85	82	80	77	77	71	66
1000	65	65	64	71	76	77	73	80	83	83	83	84	83	83	83	83	83	82	79	77	73	72	65	58
1250	63	63	61	68	73	74	70	76	80	81	81	81	80	81	81	80	80	79	76	72	69	67	59	49
1600	61	60	58	65	70	71	66	73	77	79	79	79	78	78	78	78	77	76	72	68	64	60	50	38
2000	58	56	54	61	66	67	62	69	73	77	76	77	75	76	75	75	74	72	68	63	58	53	41	24
2500	55	52	50	57	62	62	58	65	69	73	74	74	73	73	72	71	70	68	63	57	51	44	29	8
3150	51	48	46	52	57	58	53	60	65	69	70	72	70	70	69	68	66	63	57	50	43	34	15	
4000	46	43	40	46	51	52	47	54	59	64	67	68	67	67	65	64	62	58	51	41	34	21		
5000	41	38	35	41	46	47	42	49	54	58	62	64	63	63	62	59	57	52	43	31	22	6		
6300	36	34	31	37	42	42	37	44	48	53	58	60	59	59	57	54	51	44	34	19	9			
8000	34	31	29	35	39	40	35	41	45	50	55	56	55	55	52	48	43	36	23	5				
10000	32	29	26	32	37	37	32	39	42	47	51	52	51	50	46	41	35	25	9					
12500	29	27	24	30	35	35	30	36	39	43	47	48	46	44	39	33	25	13						
16000	27	25	22	27	32	32	27	32	35	39	43	43	40	37	31	23	13							
20000	25	22	19	25	29	29	23	29	31	35	38	37	33	29	21	11								
25000	23	20	17	22	26	26	20	25	27	30	32	30	25	19	10									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-52B,C,DE

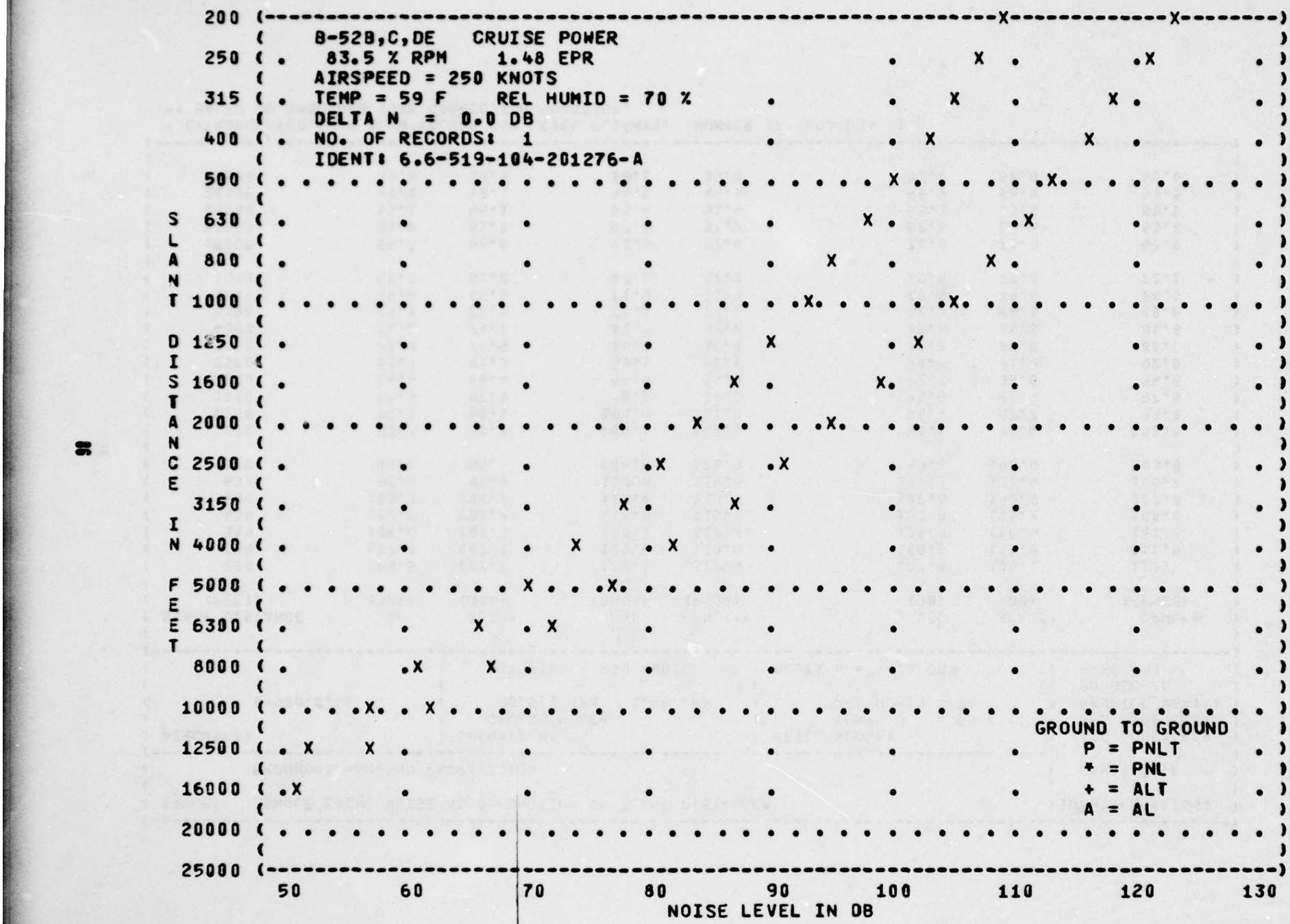
OPERATION:
CRUISE POWER
83.5 % RPM 1.46 EPR
AIRSPEED = 250 KNOTS

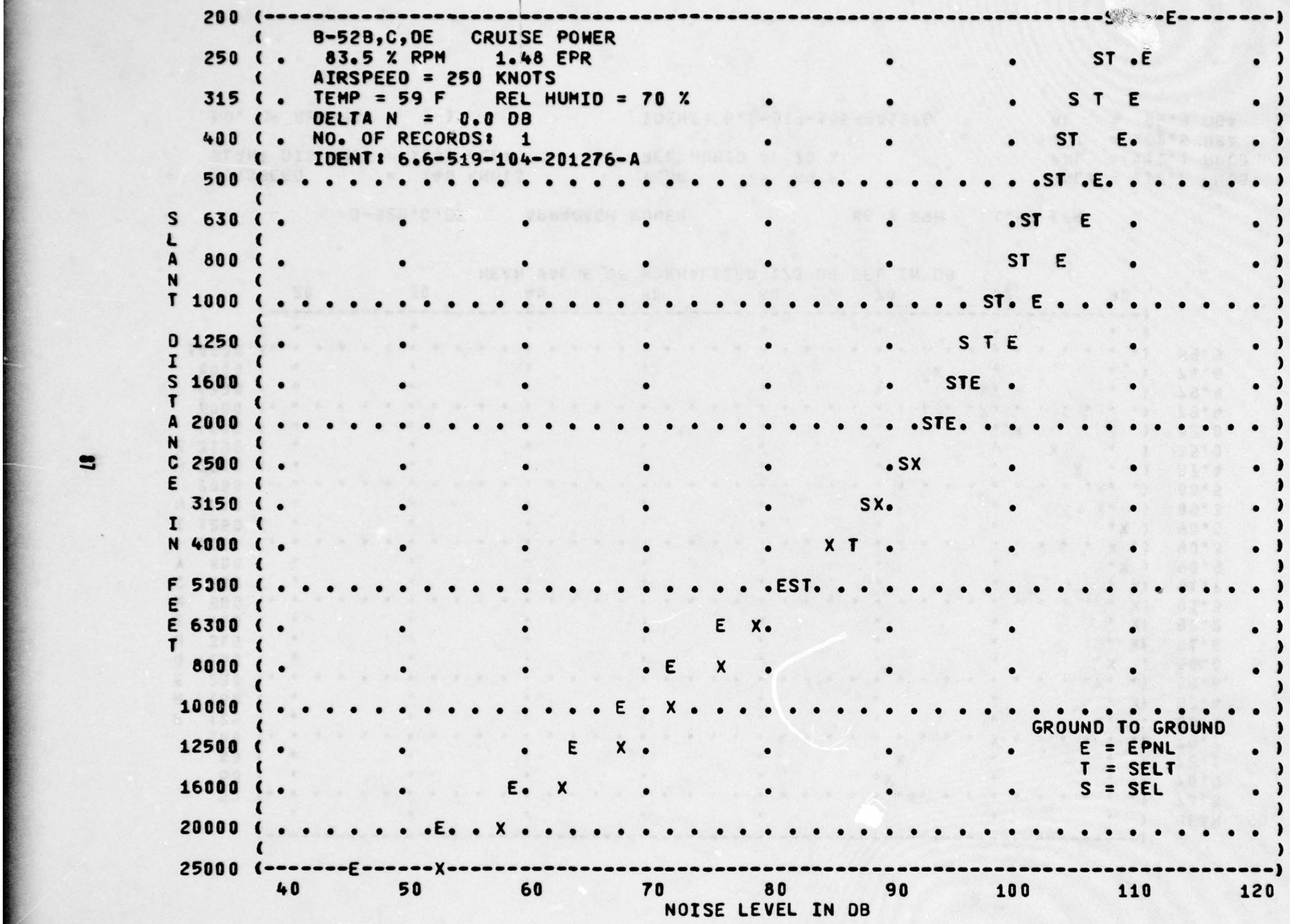
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

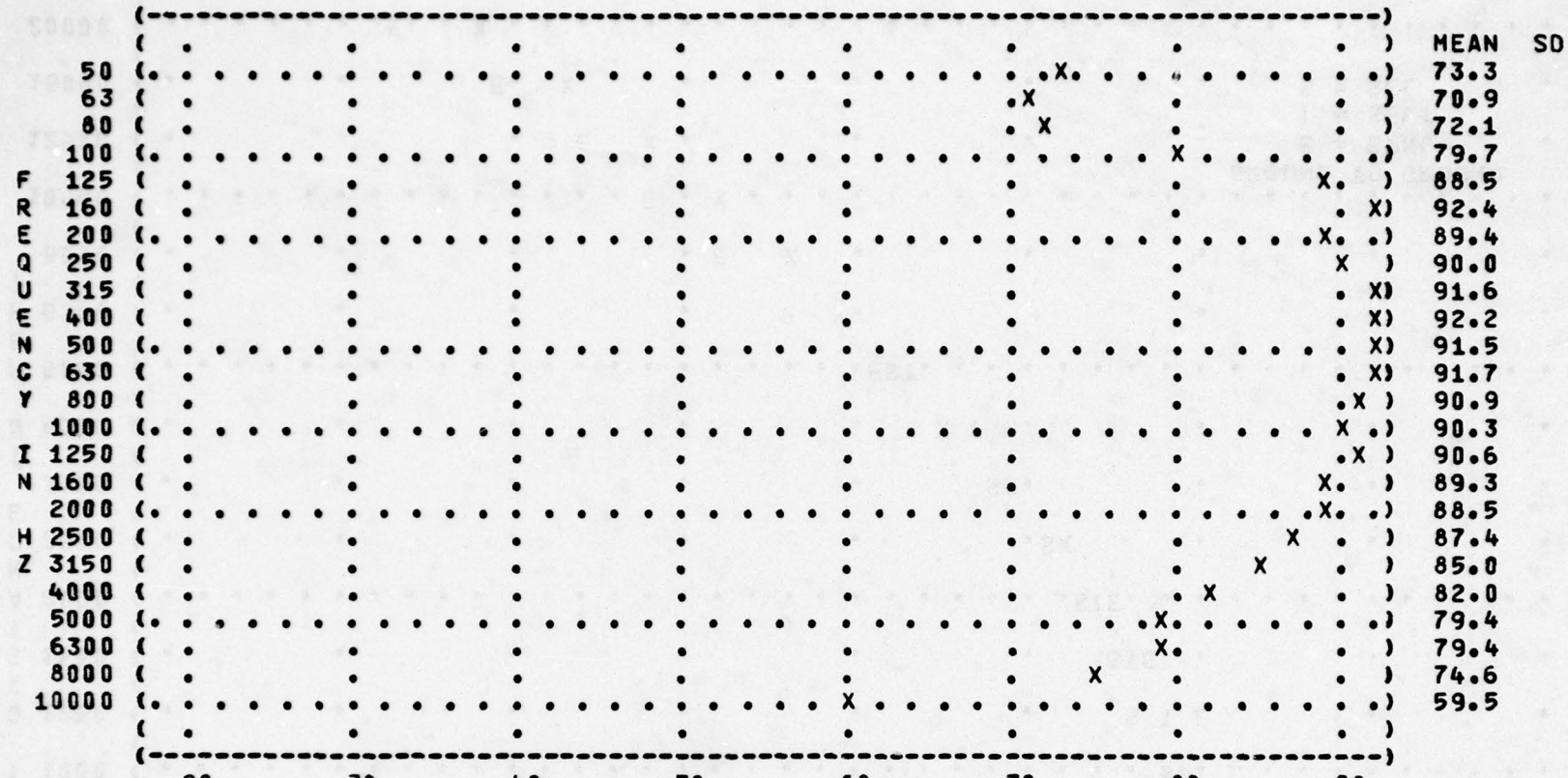
A/C CODE: 519
OPS CODE: 104
PROFILE VER: A
20 DEC 76
PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	109.5	109.5	122.9	122.9	107.8	109.1	112.7
250	107.3	107.3	120.6	120.6	106.5	107.8	111.5
315	105.0	105.0	118.3	118.3	105.3	106.6	110.2
400	102.7	102.7	115.9	115.9	103.9	105.2	108.8
500	100.3	100.3	113.4	113.4	102.6	103.9	107.3
630	97.9	97.9	110.8	110.8	101.1	102.4	105.7
800	95.4	95.4	108.0	108.0	99.6	100.9	103.9
1000	92.8	92.8	105.1	105.1	98.1	99.4	102.0
1250	90.1	90.1	101.9	101.9	96.4	97.7	99.8
1600	87.3	87.3	98.6	98.6	94.6	95.9	97.5
2000	84.4	84.4	94.9	94.9	92.7	94.0	94.8
2500	81.3	81.3	91.1	91.1	90.6	91.9	92.0
3150	77.9	77.9	86.8	86.8	88.2	89.5	88.7
4000	74.2	74.2	82.2	82.2	85.5	86.5	84.8
5000	70.1	70.1	77.2	77.2	82.3	83.1	80.6
6300	65.6	65.6	71.9	71.9	78.9	79.4	76.0
8000	61.2	61.2	67.2	67.2	75.5	75.8	72.1
10000	56.6	56.6	62.4	62.4	71.8	71.8	68.0
12500	51.5	51.5	57.2	57.2	67.8	67.8	63.8
16000	46.1	46.1	51.4	51.4	63.3	63.3	59.0
20000	40.1	40.1	44.5	44.5	58.4	58.4	53.1
25000	33.6	33.6	36.8	36.8	52.9	52.9	46.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-52B,C,DE CRUISE POWER
83.5 % RPM 1.48 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-519-104-201276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB


B-528,C,DE CRUISE POWER
83.5 % RPM 1.48 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-519-104-201276-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5300
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB



B-52B,C,DE APPROACH POWER 86 % RPM 1.57 EPR

AIRSPEED = 140 KNOTS
SLANT DISTANCE = 1000 FEET
NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %
IDENT: 6.6-519-105-201276

PNLT = 112.7 PNDB
PNL = 112.1 PNDB
ALT = 100.5 DBA
AL = 99.9 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: B-528,C,DE

OPERATION: APPROACH POWER, 86 % RPM 1.57 EPR, AIRSPEED = 140 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 519
OPS CODE: 105
PROFILE VER: A
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PAGE H4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	87	85	86	94	103	107	104	104	106	107	106	106	106	105	106	105	105	105	103	102	101	104	104	96
250	85	83	84	92	101	105	102	102	104	105	104	104	104	103	104	103	103	102	101	100	98	101	101	92
315	83	81	82	90	99	103	100	100	102	103	102	102	102	101	102	101	101	100	99	97	96	98	97	88
400	81	79	80	88	97	101	98	98	100	101	100	100	100	99	100	99	98	98	96	95	93	95	94	84
500	79	77	78	86	95	99	96	96	98	98	98	98	97	97	98	97	96	95	94	92	90	92	90	79
630	77	75	76	84	93	96	94	94	96	96	96	96	95	95	95	94	94	93	91	89	87	88	86	74
800	75	73	74	82	91	94	91	92	94	94	94	94	93	93	93	92	91	90	88	86	83	84	80	67
1000	73	71	72	80	89	92<	89	90	92	92	92	92	91	90	91	89	89	87	85	82	79	79	75	60
1250	71	69	70	78	86	90	87	88	89	90	89	89	89	88	88	87	86	84	82	78	75	74	68	50
1600	69	67	68	76	84	88	85	86	87	88	87	87	86	85	86	84	83	81	78	73	70	68	60	39
2000	67	65	66	74	82	86	83	84	85	86	85	85	84	83	83	81	79	77	74	68	64	61	50	26
2500	65	63	64	71	80	84	81	81	83	83	82	82	81	80	80	78	76	73	69	62	58	52	38	10
3150	63	61	62	69	78	82	79	79	81	81	80	80	78	77	77	74	72	69	63	55	50	41	24	
4000	61	59	60	67	76	80	77	77	78	78	77	77	75	74	73	70	67	63	57	47	40	29	7	
5000	59	57	58	65	74	77	74	75	76	76	75	74	72	70	69	66	62	57	49	37	29	14		
6300	57	54	56	63	72	75	72	72	73	73	72	71	69	66	65	60	56	50	40	25	15			
8000	55	52	53	61	69	73	69	69	70	70	68	67	65	62	60	54	49	41	29	10				
10000	53	50	51	58	67	70	67	67	67	67	65	63	60	57	54	47	41	31	15					
12500	50	48	49	56	64	68	64	64	64	63	61	59	55	51	47	39	31	18						
16000	48	46	46	54	62	65	61	61	61	59	57	54	49	44	39	29	19	3						
20000	46	43	44	51	59	62	58	57	57	55	51	48	42	36	29	17	4							
25000	44	41	41	48	56	59	54	53	53	50	46	41	34	26	17	3								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
B-52B,C,DE

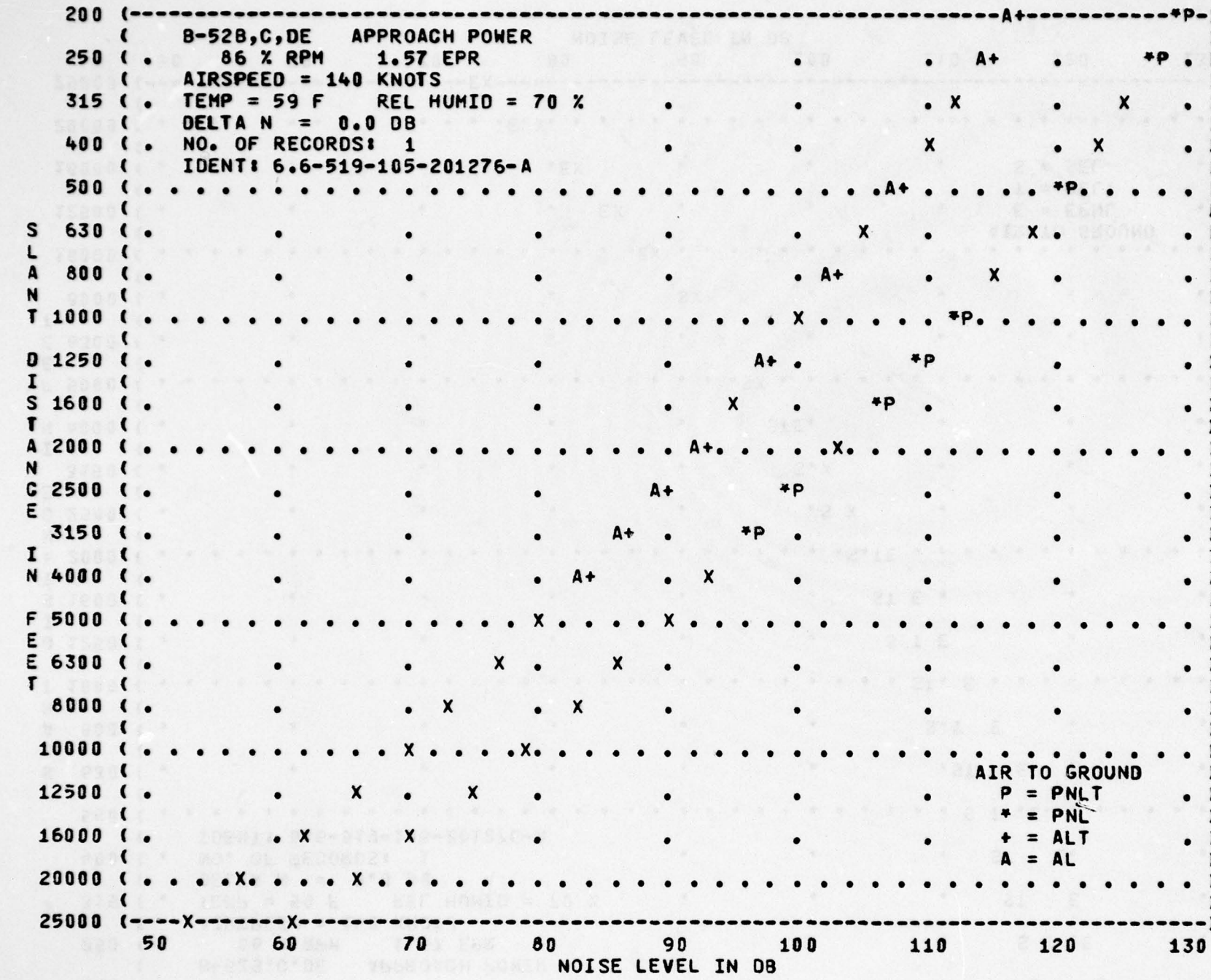
OPERATION:
APPROACH POWER
86 % RPM 1.57 EPR
AIRSPEED = 140 KNOTS

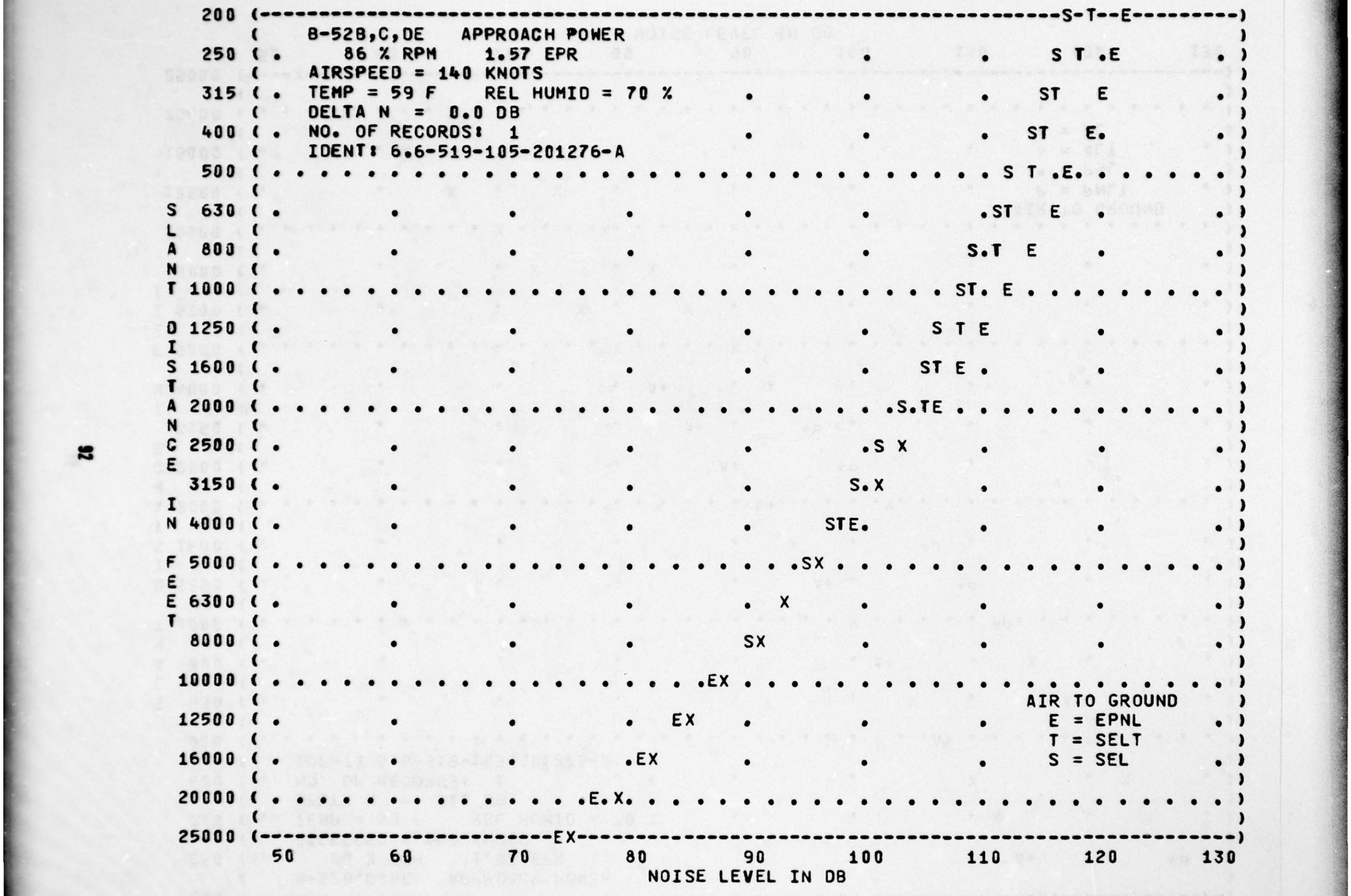
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 519
OPS CODE: 105
PROFILE VER: A
20 DEC 76
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SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	116.3	116.8	129.5	130.1	117.4	118.8	122.5
250	114.1	114.6	127.2	127.8	116.2	117.6	121.2
315	111.8	112.4	124.9	125.5	114.9	116.3	119.9
400	109.5	110.1	122.5	123.1	113.6	115.0	118.6
500	107.2	107.8	120.1	120.7	112.3	113.7	117.1
630	104.8	105.4	117.5	118.1	110.9	112.3	115.6
800	102.4	103.0	114.9	115.5	109.5	110.9	113.9
1000	99.9	100.5	112.1	112.7	108.0	109.4	112.1
1250	97.4	97.9	109.2	109.7	106.4	107.8	110.2
1600	94.7	95.3	106.0	106.6	104.8	106.2	108.0
2000	92.0	92.6	102.8	103.3	103.1	104.5	105.8
2500	89.2	89.8	99.4	100.0	101.3	102.7	103.4
3150	86.3	86.8	96.2	96.8	99.4	100.8	101.2
4000	83.2	83.7	93.0	93.5	97.3	98.4	98.8
5000	80.0	80.4	89.7	90.1	95.1	96.0	96.2
6300	76.7	76.9	86.3	86.5	92.8	93.4	93.4
8000	73.2	73.3	82.6	82.7	90.3	90.6	90.5
10000	69.6	69.6	78.8	78.8	87.7	87.7	87.4
12500	65.7	65.7	74.8	74.8	84.8	84.8	84.4
16000	61.7	61.7	70.4	70.4	81.8	81.8	81.0
20000	57.4	57.4	65.8	65.8	78.5	78.5	77.4
25000	53.0	53.0	61.3	61.3	75.1	75.1	73.9

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-528,C,DE APPROACH POWER
86 % RPM 1.57 EPR
AIRSPEED = 140 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-519-105-201276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB


B-528,C,DE APPROACH POWER
86 % RPM 1.57 EPR
AIRSPEED = 140 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-519-105-201276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

AD-A053 700 AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB OHIO F/G 1/2
COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS. VO--ETC(U)
NOV 77 J D SPEAKMAN, R G POWELL, R A LEE

UNCLASSIFIED AMRL-TR-73-110-VOL-2 NL

2 OF 8
AD A053700

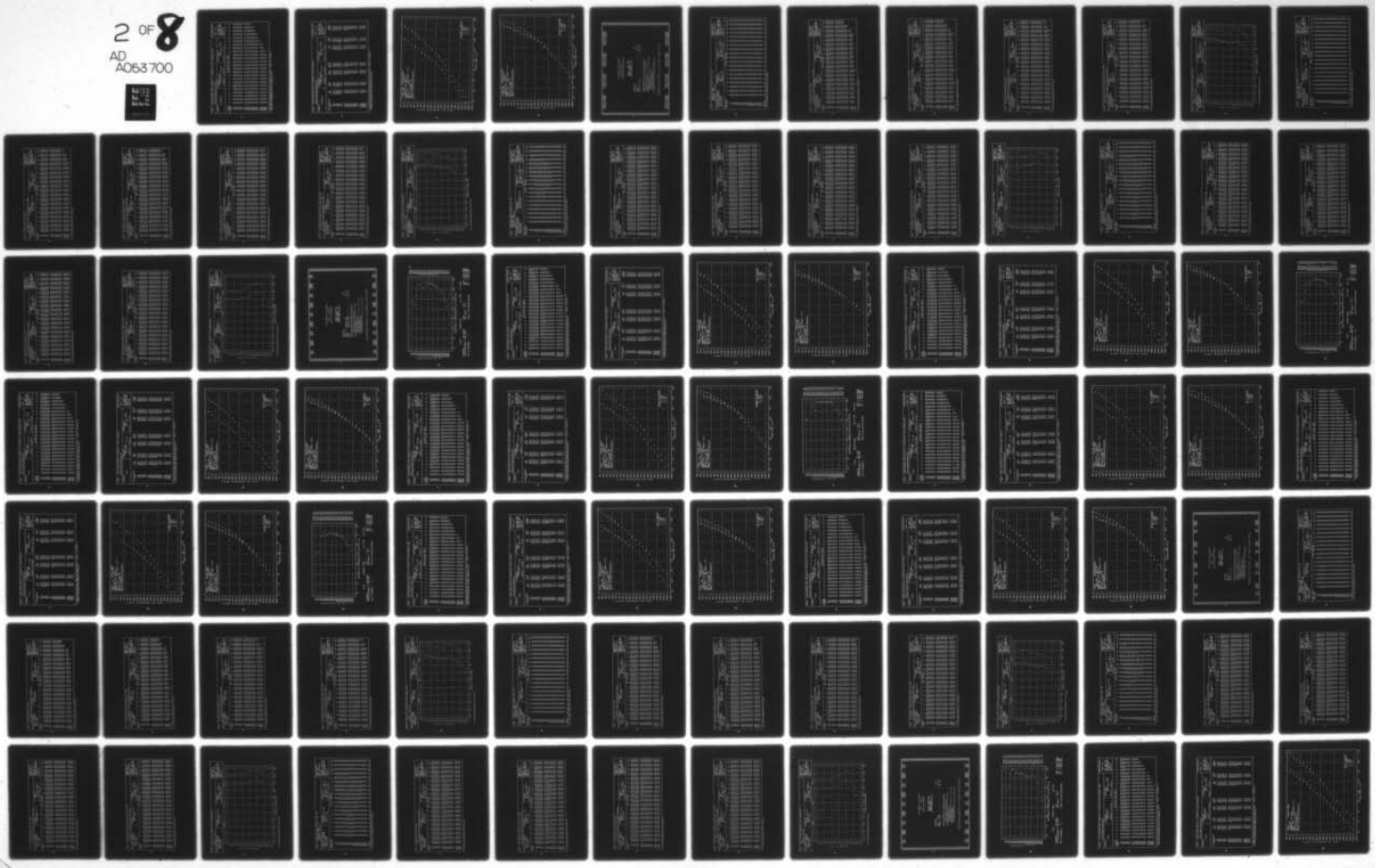


TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-52B,C,DE

OPERATION:
APPROACH POWER
86 % RPM 1.57 EPR
AIRSPEED = 140 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 519
OPS CODE: 105
PROFILE VER: A
20 DEC 76
PAGE L4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	82	80	81	89	98	102	99	99	101	102	101	101	101	100	101	100	100	100	98	97	96	99	99	91
250	80	78	79	87	96	100	97	97	99	100	99	99	99	98	99	98	98	97	96	95	93	96	96	87
315	78	76	77	85	94	98	95	95	97	98	97	97	97	96	97	96	96	95	94	92	91	93	92	83
400	76	74	75	83	92	95	92	93	95	96	95	95	95	94	95	94	93	93	91	90	88	90	89	79
500	74	72	73	81	89	93	90	91	93	93	93	93	92	92	93	92	91	90	89	87	85	87	85	74
630	72	70	71	79	87	90	87	88	91	91	91	91	90	90	90	89	89	88	86	84	82	83	81	69
800	70	68	69	76	84	88	85	86	89	89	89	89	88	88	88	87	86	85	83	81	78	79	75	62
1000	68	66	67	73	81	85	82	83	86	87	87	87	86	85	86	84	84	82	80	77	74	74	70<	55
1250	66	64	64	70	78	81	78	80	83	85	84	84	84	83	83	82	81	79	77	73	70	69	63	45
1600	64	61	61	67	75	78	75	76	80	83	82	82	81	80	81	79	78	76	73	68	65	63	55	34
2000	61	57	57	63	71	74	71	72	77	81	80	80	79	78	78	76	74	72	69	63	59	56	45	21
2500	58	53	53	59	67	70	67	68	73	77	77	77	76	75	75	73	71	68	64	57	53	47	33	5
3150	54	49	48	54	62	65	62	63	68	73	74	75	73	72	72	69	67	64	58	50	45	36	19	
4000	49	44	43	48	56	59	56	57	63	68	70	71	70	69	68	65	62	58	52	42	35	24	2	
5000	44	39	38	44	51	54	51	52	57	63	66	67	67	65	64	61	57	52	44	32	24	9		
6300	39	34	34	39	47	50	46	47	51	57	62	63	63	61	60	55	51	45	35	20	10			
8000	37	32	31	37	44	47	44	44	48	54	58	59	59	57	55	49	44	36	24	5				
10000	35	30	29	34	42	45	41	42	45	51	55	55	54	52	49	42	36	26	10					
12500	32	28	27	32	39	42	38	39	42	47	51	51	49	46	42	34	26	13						
16000	30	26	24	30	37	39	36	36	39	43	47	46	43	39	34	24	14							
20000	28	23	22	27	34	36	32	32	35	39	41	40	36	31	24	12								
25000	26	21	19	24	31	33	29	28	31	34	36	33	28	21	12									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
B-52B,C,D

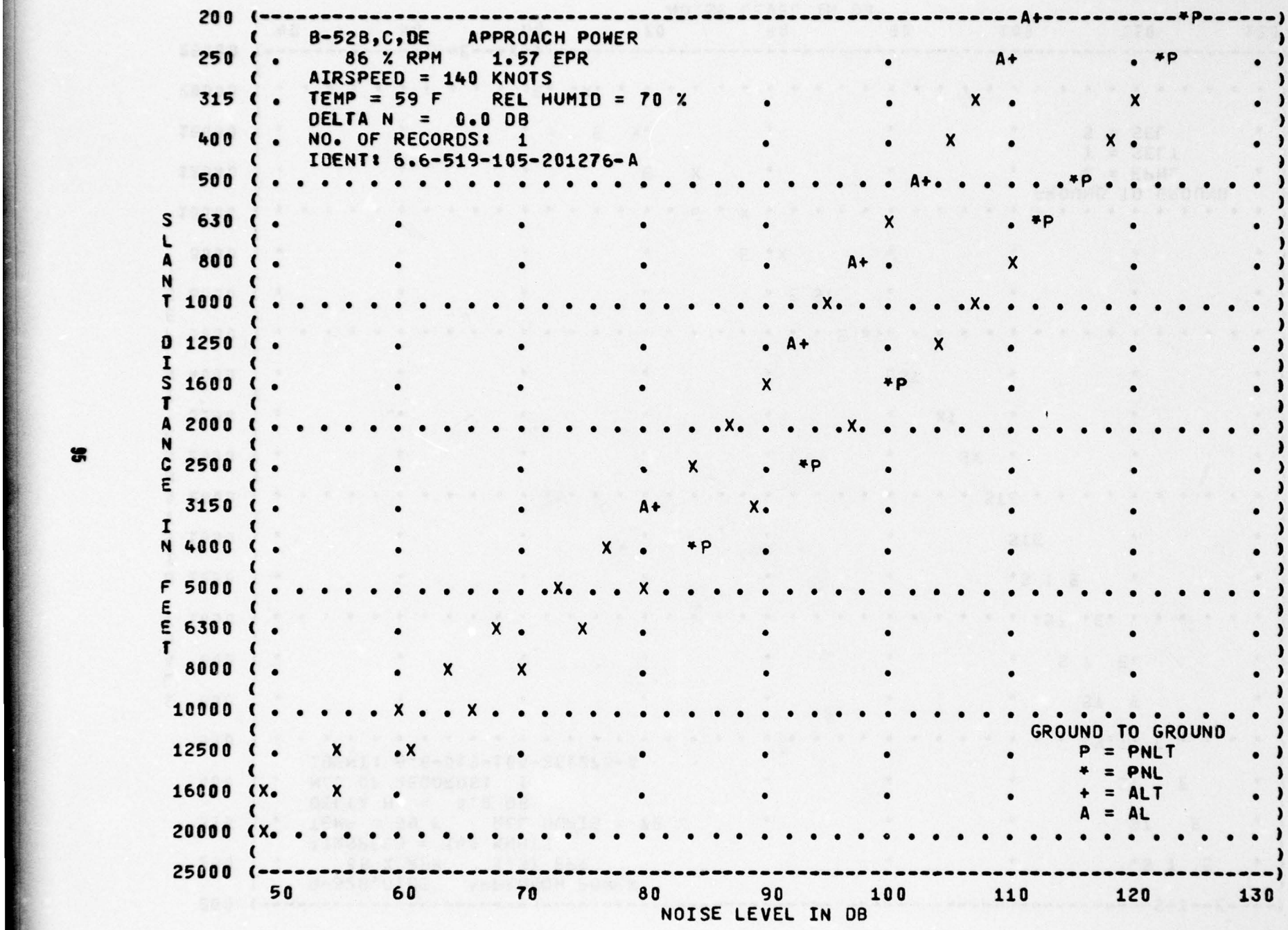
OPERATION:
APPROACH POWER
86 % RPM 1.57 EPR
AIRSPEED = 140 KNOTS

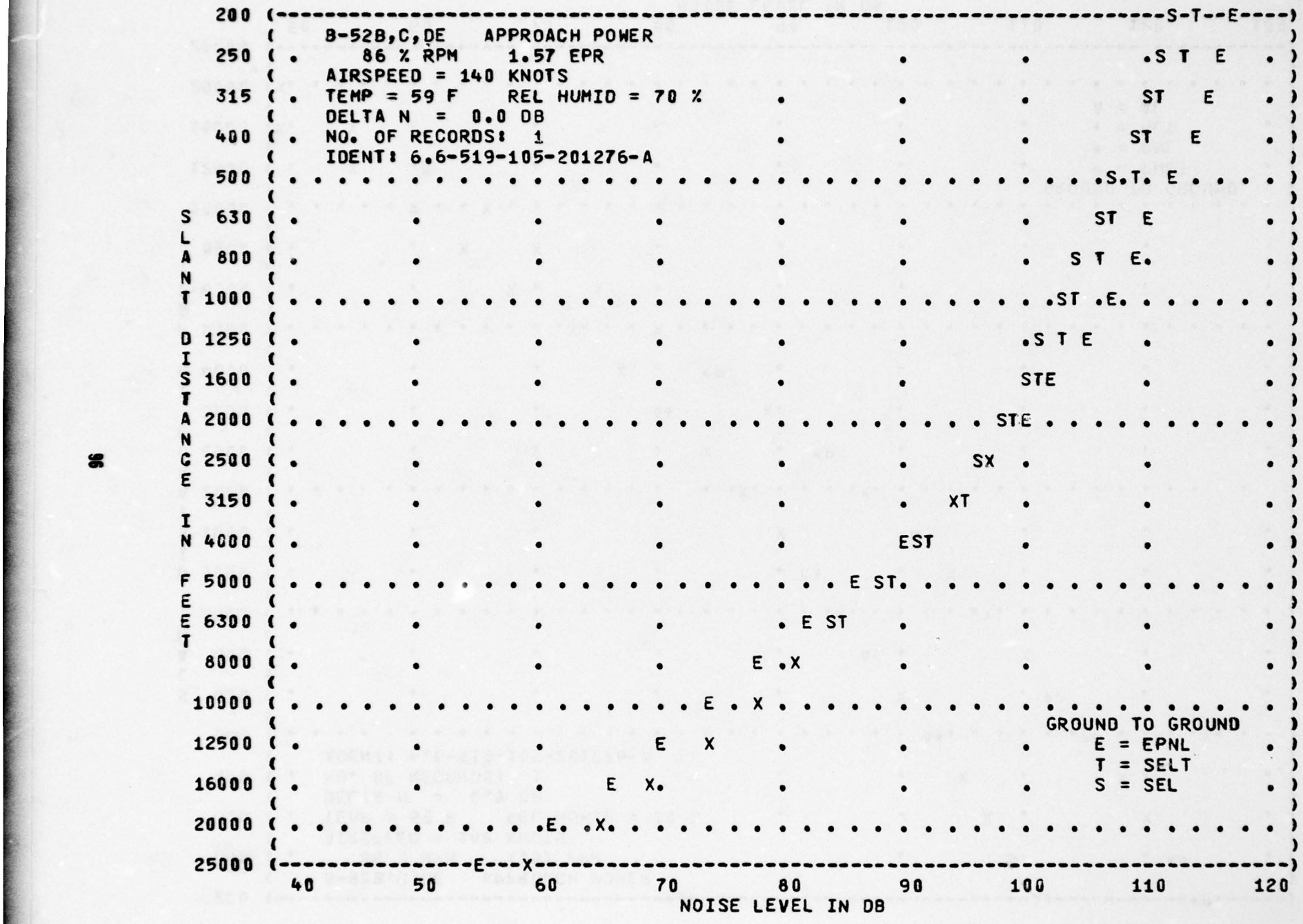
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 519
OPS CODE: 105
PROFILE VER: A
20 DEC 76
PAGE M4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	111.3	111.8	124.5	125.0	112.4	113.8	117.5
250	109.1	109.6	122.2	122.8	111.2	112.6	116.2
315	106.8	107.4	119.9	120.5	109.9	111.3	114.9
400	104.5	105.1	117.5	118.1	108.6	110.0	113.5
500	102.2	102.8	115.0	115.6	107.3	108.7	112.1
630	99.8	100.4	112.4	113.0	105.9	107.3	110.4
800	97.4	97.9	109.7	110.3	104.4	105.8	108.7
1000	94.8	95.4	106.8	107.4	102.9	104.3	106.8
1250	92.2	92.8	103.7	104.3	101.3	102.7	104.7
1600	89.5	90.1	100.4	100.9	99.6	101.0	102.4
2000	86.7	87.3	96.8	97.4	97.8	99.2	99.8
2500	83.7	84.3	92.9	93.5	95.8	97.2	96.9
3150	80.4	81.0	88.8	89.4	93.5	94.9	93.8
4000	76.8	77.2	84.4	84.8	90.9	92.0	90.1
5000	72.7	73.0	79.6	79.9	87.8	88.6	86.0
6300	68.3	68.5	74.6	74.8	84.4	84.9	81.7
8000	64.1	64.2	70.3	70.4	81.2	81.5	78.1
10000	59.6	59.6	65.6	65.6	77.7	77.7	74.2
12500	54.7	54.7	60.5	60.5	73.8	73.8	70.1
16000	49.3	49.3	55.2	55.2	69.4	69.4	65.8
20000	43.5	43.5	49.3	49.3	64.6	64.6	60.9
25000	37.1	37.1	41.9	41.9	59.2	59.2	54.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-528,C,DE APPROACH POWER
86 % RPM 1.57 EPR
AIRSPEED = 140 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-519-105-201276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


B-52B,C,DE APPROACH POWER
86 % RPM 1.57 EPR
AIRSPEED = 140 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-519-105-201276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

NOISE PRODUCED ON THE GROUND BY

B-52B,C,D,E AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 76-519-001
AIRCRAFT CODE: 519
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING — PAGE

IDLE 61% RPM . . . . . 98 - 103
80% RPM . . . . . 104 - 109
90% RPM . . . . . 110 - 115
MAX PWR (DRY) 94% RPM . . . . . 116 - 121

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
- NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
- PERCEIVED NOISE LEVEL
- TONE-CORRECTED, PERCEIVED NOISE LEVEL
- A-WEIGHTED OVERALL SOUND LEVEL
- TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 01
AIRCRAFT CODE 519
OPERATION CODE 06013
PROFILE VERSION A
13 DEC 76
PAGE C1

NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
IDLE
SINGLE ENGINE
61% RPM

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.6 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	69	68	67	68	68	67	67	68	70	68	70	70	70	71	72	71	67	57	47
63	66	66	66	65	66	66	66	68	69	68	69	71	71	73	73	72	67	57	47
80	65	65	65	64	65	65	64	67	67	68	69	69	70	71	72	70	67	57	47
100	67	68	68	68	68	68	70	71	70	71	73	74	73	74	73	72	68	58	48
125	66	66	66	68	65	67	67	68	68	69	69	71	73	74	73	71	67	57	47
160	69	70	69	70	66	67	68	70	70	70	70	70	74	75	73	70	66	56	46
200	69	70	69	69	68	67	68	69	70	71	71	71	71	73	73	70	63	53	43
250	70	70	70	70	69	68	70	71	72	72	72	73	73	72	73	68	63	53	43
315	71	71	72	71	71	71	71	71	71	71	72	72	75	74	72	70	65	55	45
400	75	75	74	75	73	72	72	73	75	77	76	75	73	74	72	70	65	55	45
500	75	75	75	74	73	72	71	72	73	74	74	75	73	73	70	68	64	54	44
630	77	76	76	76	74	73	72	72	74	73	73	73	74	72	70	69	65	55	45
800	79	78	78	77	75	73	71	71	71	72	71	72	72	70	69	67	64	54	44
1000	82	81	82	82	81	78	78	81	78	76	75	74	73	72	72	70	67	57	47
1250	86	84	86	85	84	79	80	82	79	77	77	76	76	75	74	72	68	58	48
1600	81	81	82	82	83	80	80	78	74	71	72	71	73	71	70	69	64	54	44
2000	87	86	86	84	83	81	81	79	75	72	73	72	72	71	70	67	63	53	43
2500	84	83	82	80	79	78	77	76	73	69	70	70	71	69	68	66	62	52	42
3150	82	82	82	83	82	81	82	82	79	77	80	81	79	77	74	71	67	57	47
4000	80	79	80	79	78	76	77	77	78	79	83	86	85	82	78	74	71	61	51
5000	77	77	77	76	75	72	71	71	69	67	70	72	71	68	66	64	60	50	40
6300	73	73	72	72	71	70	70	70	68	68	72	72	72	69	66	64	60	50	40
8000	70	70	69	68	70	69	70	70	70	71	73	74	76	72	71	69	65	55	45
10000	63	62	62	61	61	60	60	60	59	61	66	68	67	63	59	56	51	41	31
OVERALL	93	92	93	92	91	89	89	89	88	87	88	89	89	88	86	84	80	70	60

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
IDLE
SINGLE ENGINE
61% RPM

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.6 DB

IDENTIFICATION:
OMEGA 6.2
TEST 76-519-001
RUN 01
AIRCRAFT CODE 519
OPERATION CODE 06013
PROFILE VERSION A
13 DEC 76
PAGE D1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	107.9	107.4	107.4	106.9	106.3	104.6	105.1	105.2	103.1	102.6	105.3	107.1	106.6	104.4	101.7	98.8	94.9	84.7	74.4
250	105.7	105.2	105.1	104.6	104.0	102.4	102.9	102.9	100.8	100.3	103.0	104.7	104.2	102.0	99.3	96.4	92.5	82.3	72.0
315	103.4	102.9	102.9	102.3	101.7	100.0	100.5	100.6	98.4	97.9	100.6	102.3	101.7	99.6	96.9	94.0	90.1	79.9	69.5
400	101.1	100.5	100.5	99.8	99.2	97.6	98.1	98.1	96.0	95.4	98.0	99.7	99.2	97.1	94.4	91.5	87.6	77.3	66.9
500	98.7	98.1	98.1	97.3	96.7	95.1	95.5	95.6	93.5	92.7	95.3	97.0	96.5	94.4	91.7	88.8	84.9	74.6	64.1
630	96.1	95.6	95.6	94.6	94.0	92.4	92.9	92.9	90.8	89.9	92.5	94.1	93.6	91.5	88.9	86.0	82.1	71.7	61.1
800	93.5	92.9	92.9	91.8	91.2	89.5	90.0	90.1	87.9	86.9	89.4	91.1	90.6	88.5	85.9	83.0	79.1	68.6	57.9
1000	90.7	90.1	90.1	88.9	88.2	86.5	87.0	87.1	84.9	83.8	86.2	87.8	87.3	85.2	82.7	79.8	75.8	65.3	54.4
1250	87.7	87.1	87.1	85.9	84.9	83.2	83.7	83.8	81.6	80.5	82.6	84.1	83.7	81.7	79.1	76.2	72.3	61.7	50.3
1500	84.5	83.9	83.9	82.7	81.7	79.8	80.1	80.2	78.1	77.0	78.8	80.1	79.7	77.7	75.2	72.4	68.3	57.5	45.4
2000	81.0	80.4	80.5	79.3	78.2	76.2	76.3	76.3	74.2	73.0	74.9	75.7	75.3	73.4	70.9	68.1	63.9	53.0	40.2
2500	77.2	76.6	76.7	75.4	74.3	72.4	72.4	71.9	69.8	68.6	70.4	70.8	70.3	68.5	66.4	63.8	59.4	47.5	34.7
3150	73.1	72.4	72.5	71.3	70.2	68.2	68.1	67.6	65.6	64.1	65.3	65.7	65.1	63.4	61.9	59.5	55.1	42.7	27.9
4000	68.4	67.8	67.8	66.6	65.7	63.4	63.3	63.2	61.1	59.6	59.9	60.1	60.0	58.6	57.3	54.8	49.9	37.7	13.9
5000	63.2	62.5	62.8	61.7	60.8	58.0	57.9	58.3	56.3	54.7	54.9	54.7	54.9	53.3	52.0	49.4	44.3	31.0	
6300	57.4	56.6	57.6	56.4	55.2	52.3	52.1	52.9	50.7	49.0	49.1	48.9	49.0	47.2	45.8	43.1	37.9	19.7	
8000	51.9	50.9	52.2	51.0	49.7	45.9	45.9	47.4	44.9	43.3	42.9	42.6	42.7	41.0	39.5	36.9	31.4	8.5	
10000	45.2	44.0	45.5	44.2	42.7	38.6	38.6	40.4	38.2	36.7	36.5	36.8	36.3	35.0	32.4	29.5	22.2		
12500	37.2	36.0	37.5	36.3	34.7	30.9	30.5	32.8	30.6	30.2	29.8	30.2	29.4	27.8	24.3	20.8	9.1		
16000	27.1	26.2	27.0	25.7	23.5	18.4	18.2	22.6	19.8	21.4	21.0	21.3	18.7	17.3	11.9	12.2			
20000	13.3	12.1	13.1	10.4	12.4	6.0	2.0	12.3	9.1	10.2	7.4	8.8	8.0	5.7		3.5			
25000					1.3			2.0											

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 01
AIRCRAFT CODE 519
OPERATION CODE 06013
PROFILE VERSION A
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NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
IDLE
SINGLE ENGINE
61% RPM

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.6 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	109.5	108.8	108.9	108.1	107.4	105.9	106.7	107.0	104.5	105.2	108.3	110.5	109.9	107.5	104.6	101.2	97.5	87.3	77.1
250	107.3	106.5	106.7	105.8	105.1	103.6	104.4	104.7	102.2	102.8	106.0	108.2	107.5	105.3	102.2	98.8	95.2	85.0	74.7
315	105.0	104.3	104.4	103.4	102.8	101.3	102.0	102.3	99.9	100.4	103.5	105.7	105.0	102.8	99.8	96.4	92.8	82.5	72.2
400	102.6	101.9	102.1	101.0	100.4	98.8	99.6	99.9	97.4	97.9	101.0	103.2	102.5	100.3	97.3	93.9	90.2	80.0	69.5
500	100.2	99.5	99.6	98.5	97.8	96.3	97.1	97.4	94.9	95.3	98.3	100.5	99.8	97.5	94.6	91.2	87.6	77.3	66.7
630	97.7	96.9	97.1	95.8	95.2	93.6	94.4	94.7	92.2	92.5	95.5	97.6	96.9	94.8	91.8	88.4	84.7	74.4	63.8
800	95.0	94.3	94.4	93.0	92.3	90.8	91.5	91.9	89.4	89.5	92.4	94.5	93.9	91.7	88.8	85.4	81.7	71.3	60.6
1000	92.2	91.5	91.6	90.1	89.3	87.8	88.5	88.8	86.4	86.4	89.1	91.2	90.6	88.5	85.5	82.2	78.5	68.0	57.0
1250	89.2	88.5	88.6	87.1	86.1	84.5	85.2	85.6	83.1	83.0	85.5	87.6	87.0	84.9	82.0	78.6	74.9	64.3	52.9
1500	86.0	85.3	85.4	83.9	82.8	81.0	81.7	82.0	79.5	79.5	81.8	83.6	83.0	81.0	78.1	74.8	71.0	60.2	48.1
2000	82.6	81.8	82.0	80.5	79.3	77.5	77.8	78.1	75.6	75.6	77.8	79.2	78.6	76.6	73.8	70.5	66.6	55.6	42.8
2500	78.6	78.0	78.2	76.6	75.5	73.6	73.9	73.7	71.3	71.2	73.3	74.3	73.6	71.7	69.3	66.2	62.1	50.2	37.4
3150	74.6	73.8	74.0	72.5	71.4	69.4	69.7	69.3	67.0	66.7	68.3	69.2	68.4	66.7	64.8	61.9	57.8	45.4	30.6
4000	69.6	68.9	69.1	67.5	66.6	64.3	64.6	64.6	62.3	61.7	62.3	62.9	62.7	61.2	59.6	56.8	52.0	39.8	16.1
5000	64.1	63.4	63.7	62.4	61.5	58.8	58.9	59.4	57.2	56.2	56.6	56.8	56.9	55.3	53.8	50.8	45.9	32.5	1.5
6300	58.0	57.1	58.2	56.9	55.5	52.8	52.7	53.6	51.3	50.0	50.3	50.3	50.3	48.5	47.0	44.1	39.0	20.8	
8000	52.2	51.2	52.5	51.3	50.0	46.1	46.2	47.7	45.2	43.8	43.5	43.2	43.3	41.6	40.0	37.4	31.9	9.0	
10000	45.2	44.0	45.6	44.2	42.7	38.6	38.6	40.4	38.2	36.7	36.5	36.8	36.3	35.0	32.4	29.5	22.2		
12500	37.2	36.0	37.5	36.3	34.7	30.9	30.5	32.8	30.6	30.2	29.8	30.2	29.4	27.8	24.3	20.8	9.1		
16000	27.1	26.2	27.0	25.7	23.5	18.4	16.2	22.6	19.8	21.4	21.0	21.3	18.7	17.3	11.9	12.2			
20000	13.3	12.1	13.1	10.4	12.4	6.0	2.0	12.3	9.1	10.2	7.4	8.8	8.0	6.7		3.5			
25000					1.3			2.0											

> SP. DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DbA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
IDLE
SINGLE ENGINE
61% RPM

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.6 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 01
AIRCRAFT CODE 519
OPERATION CODE 06013
PROFILE VERSION A
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PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	95.7	95.6	95.4	94.4	93.7	91.3	91.5	91.5	89.3	88.1	90.3	91.7	91.0	88.6	86.1	83.4	79.6	69.6	59.6
250	93.5	92.8	93.2	92.2	91.5	89.1	89.3	89.3	87.1	85.9	88.0	89.3	88.6	86.3	83.8	81.2	77.3	67.3	57.3
315	91.3	90.6	91.0	90.0	89.3	86.8	87.0	87.1	84.8	83.6	85.6	86.9	86.2	83.9	81.5	78.9	75.0	65.0	55.0
400	89.0	88.3	88.7	87.7	87.0	84.5	84.7	84.8	82.5	81.3	83.1	84.4	83.7	81.5	79.1	76.5	72.6	62.6	52.6
500	86.7	86.0	86.4	85.4	84.7	82.1	82.3	82.4	80.1	78.9	80.6	81.8	81.1	78.9	76.6	74.1	70.2	60.2	50.2
630	84.3	83.5	84.0	83.0	82.2	79.7	79.9	80.0	77.7	76.4	78.0	79.1	78.4	76.3	74.1	71.5	67.7	57.7	47.7
800	81.8	81.0	81.5	80.5	79.7	77.2	77.3	77.5	75.1	73.8	75.2	76.2	75.6	73.5	71.4	68.9	65.1	55.1	45.1
1000	79.2	78.4	79.0	77.9	77.1	74.5	74.6	74.9	72.5	71.2	72.3	73.1	72.6	70.6	68.7	66.3	62.4	52.4	42.4
1250	76.5	75.7	76.3	75.2	74.4	71.7	71.8	72.1	69.8	68.4	69.3	69.9	69.4	67.6	65.8	63.5	59.6	49.6	39.6
1600	73.6	72.8	73.4	72.4	71.6	68.8	68.9	69.3	67.0	65.6	66.1	66.6	66.1	64.5	62.8	60.6	56.7	46.7	36.7
2000	70.6	69.7	70.4	69.4	68.6	65.7	65.7	66.3	64.0	62.7	62.9	63.1	62.8	61.3	59.8	57.6	53.7	43.7	33.7
2500	67.3	66.5	67.2	66.2	65.3	62.4	62.4	63.1	60.9	59.5	59.5	59.6	59.3	57.9	56.5	54.4	50.6	40.6	30.6
3150	63.8	63.0	63.6	62.8	61.9	58.9	58.8	59.7	57.5	56.2	55.9	55.8	55.7	54.4	53.1	51.1	47.2	37.2	27.2
4000	60.1	59.2	60.1	59.1	58.1	55.0	55.0	56.0	53.8	52.5	52.1	52.0	51.8	50.6	49.4	47.4	43.6	33.6	23.6
5000	55.9	55.0	56.0	55.0	54.0	50.8	50.8	52.0	49.8	48.5	48.0	47.8	47.7	46.4	45.3	43.3	39.6	29.6	19.6
6300	51.3	50.4	51.4	50.5	49.5	46.2	46.1	47.7	45.5	44.1	43.6	43.3	43.2	42.0	41.0	39.0	35.3	25.3	15.3
8000	46.5	45.5	46.6	45.7	44.6	41.4	41.3	43.0	41.0	39.8	39.3	39.1	38.9	37.8	36.6	34.6	31.0	21.0	11.0
10000	41.2	40.3	41.2	40.4	39.3	36.1	35.9	37.8	36.1	35.2	34.6	34.5	34.2	33.2	31.8	29.9	26.2	16.2	6.2
12500	35.4	34.6	35.4	34.6	33.4	30.5	30.1	31.9	30.7	30.1	29.5	29.5	29.1	28.2	26.7	24.8	21.1	11.1	1.1
16000	29.1	28.4	28.9	28.2	26.9	24.3	23.8	25.5	24.9	24.6	24.0	24.1	23.6	22.9	21.2	19.3	15.5	5.5	
20000	22.2	21.6	21.9	21.3	19.9	17.7	17.1	18.6	18.6	18.7	18.1	18.4	17.8	17.2	15.3	13.5	9.5		
25000	14.8	14.4	14.5	13.9	12.5	10.7	10.1	11.3	12.0	12.4	11.9	12.2	11.5	11.2	9.2	7.3	3.2		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 01
AIRCRAFT CODE 519
OPERATION CODE 06013
PROFILE VERSION A
13 DEC 76
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NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
IDLE
SINGLE ENGINE
61% RPM

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.6 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	97.3	96.4	96.9	95.6	94.8	92.5	93.0	93.3	90.7	90.7	93.2	95.1	94.3	91.8	89.0	85.8	82.3	72.3	62.3
250	95.1	94.2	94.7	93.4	92.6	90.3	90.8	91.1	88.5	88.4	90.9	92.8	91.9	89.5	86.7	83.6	80.0	70.0	60.0
315	92.9	92.0	92.5	91.2	90.4	88.0	88.6	88.9	86.3	86.1	88.6	90.4	89.5	87.2	84.4	81.3	77.7	67.7	57.7
400	90.6	89.7	90.3	88.9	88.1	85.7	86.3	86.6	83.9	83.8	86.1	87.9	87.0	84.7	82.0	78.9	75.3	65.3	55.3
500	88.3	87.4	87.9	86.6	85.8	83.4	83.9	84.2	81.6	81.4	83.6	85.3	84.4	82.2	79.5	76.5	72.9	62.9	52.9
630	85.8	84.9	85.5	84.2	83.4	80.9	81.4	81.8	79.1	78.9	80.9	82.5	81.7	79.5	77.0	73.9	70.3	60.3	50.3
800	83.3	82.4	83.1	81.7	80.9	78.4	78.8	79.3	76.6	75.3	78.2	79.7	78.9	76.8	74.3	71.3	67.7	57.7	47.7
1000	80.7	79.8	80.5	79.1	78.3	75.7	76.2	76.6	73.9	73.7	75.3	76.6	75.9	73.9	71.5	68.7	65.0	55.0	45.0
1250	78.0	77.1	77.8	76.4	75.6	72.9	73.4	73.9	71.2	71.0	72.2	73.4	72.7	70.9	68.7	65.9	62.2	52.2	42.2
1500	75.2	74.2	75.0	73.6	72.7	70.0	70.4	71.1	68.4	68.1	69.1	70.1	69.4	67.7	65.7	63.0	59.4	49.4	39.4
2000	72.1	71.1	72.0	70.6	69.7	66.9	67.3	68.1	65.4	65.2	65.9	66.6	66.1	64.5	62.6	60.0	56.4	46.4	36.4
2500	68.9	67.9	68.8	67.4	66.5	63.6	63.9	64.9	62.3	62.1	62.5	63.0	62.6	61.1	59.4	56.9	53.2	43.2	33.2
3150	65.4	64.4	65.3	64.0	63.0	60.1	60.4	61.5	58.9	58.7	58.9	59.3	59.0	57.6	56.0	53.5	49.9	39.9	29.9
4000	61.3	60.3	61.3	60.0	59.1	56.0	56.2	57.4	55.0	54.5	54.5	54.7	54.5	53.2	51.7	49.3	45.8	35.8	25.8
5000	56.8	55.8	56.3	55.7	54.7	51.5	51.7	53.1	50.7	50.0	49.8	49.9	49.6	48.4	47.1	44.8	41.2	31.2	21.2
6300	51.9	50.9	52.0	51.0	49.9	46.7	46.8	48.4	46.1	45.1	44.8	44.7	44.5	43.3	42.1	39.9	36.4	26.4	16.4
8000	46.8	45.8	46.9	45.9	44.8	41.6	41.0	43.3	41.3	40.4	39.9	39.8	39.5	38.4	37.2	35.1	31.5	21.5	11.5
10000	41.2	40.3	41.2	40.4	39.3	36.1	35.9	37.8	36.1	35.2	34.6	34.5	34.2	33.2	31.8	29.9	26.2	16.2	6.2
12500	35.4	34.6	35.4	34.6	33.4	30.5	30.1	31.9	30.7	30.1	29.5	29.5	29.1	28.2	26.7	24.8	21.1	11.1	1.1
16000	29.1	28.4	28.9	28.2	26.9	24.3	23.8	25.5	24.9	24.6	24.0	24.1	23.6	22.9	21.2	19.3	15.5	5.5	
20000	22.2	21.6	21.9	21.3	19.9	17.7	17.1	18.6	18.6	18.7	18.1	18.4	17.8	17.2	15.3	13.5	9.5		
25000	14.8	14.4	14.5	13.9	12.5	10.7	10.1	11.3	12.0	12.4	11.9	12.2	11.5	11.2	9.2	7.3	3.2		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

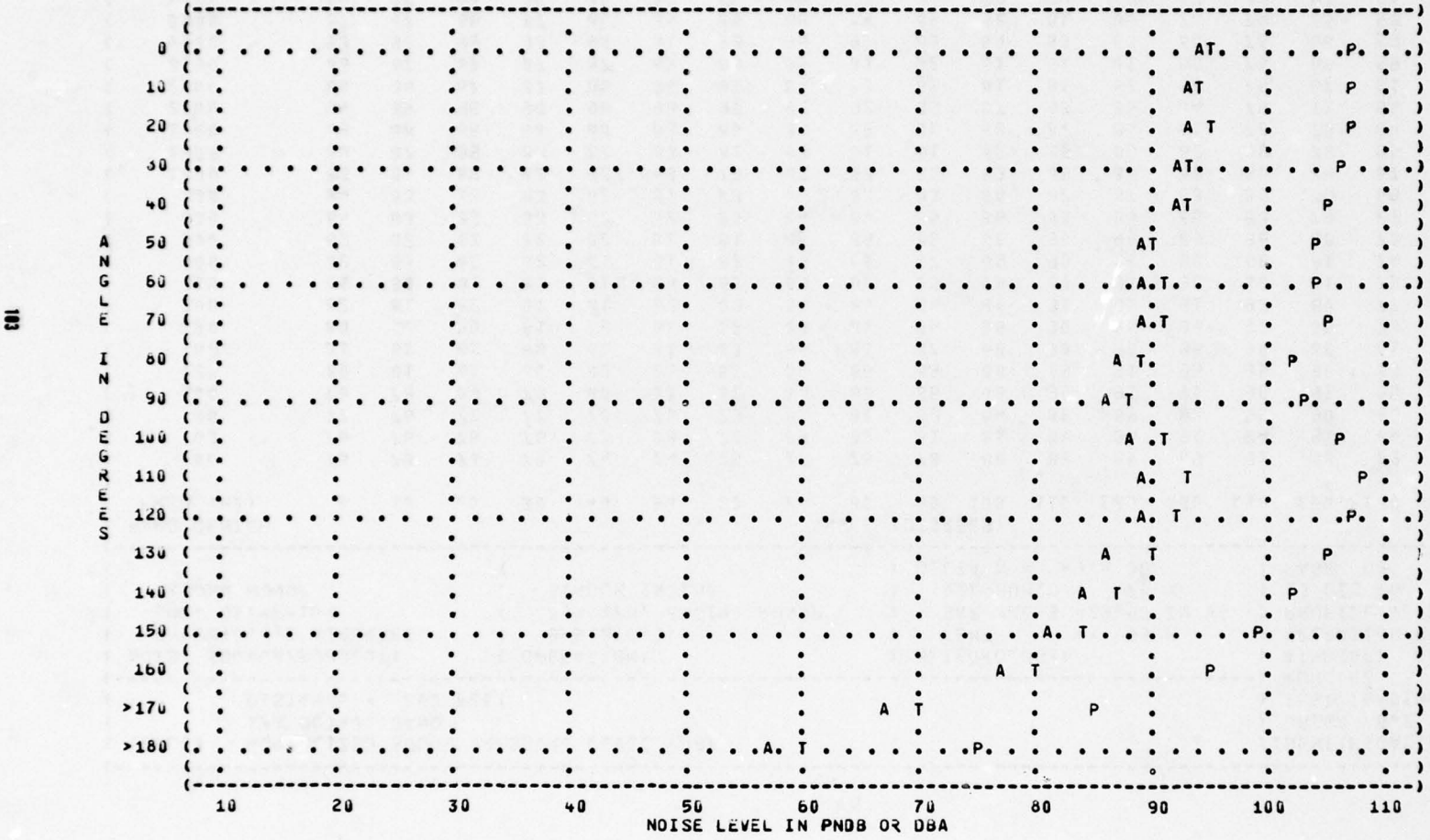
NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
IDLE
SINGLE ENGINE
61% RPM

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.6 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 01
AIRCRAFT CODE 519
OPERATION CODE 06013
PROFILE VERSION A
13 DEC 76
PAGE J1

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 02
AIRCRAFT CODE 519
OPERATION CODE 06019
PROFILE VERSION A
13 DEC 76
PAGE C2

NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
80% RPM, ENGINE RUNUP
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -9.6 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
50	73	73	73	75	74	74	75	77	78	78	80	82	85	89	91	88	82	75	68
63	76	76	76	76	77	78	78	79	80	81	81	84	88	91	94	91	84	77	71
80	77	76	77	77	78	78	79	81	82	82	84	86	89	92	95	90	83	76	70
100	78	78	80	79	80	81	82	83	85	86	88	90	91	95	96	91	85	78	71
125	80	81	81	80	80	81	82	84	86	86	88	89	91	96	95	90	83	76	70
160	81	81	81	80	81	81	83	85	85	87	88	90	92	95	94	88	81	74	68
200	80	80	80	81	79	81	82	83	84	86	88	90	91	93	92	85	78	71	65
250	82	81	82	81	81	82	82	84	84	86	88	91	91	91	92	84	77	70	64
315	81	80	81	81	81	80	82	85	85	85	85	89	91	90	88	81	75	68	61
400	82	83	82	82	81	81	82	85	85	87	89	90	91	90	86	81	74	67	61
500	82	82	83	82	82	81	81	85	86	86	86	90	90	88	86	80	73	66	60
630	84	83	83	83	82	82	80	84	84	85	86	88	89	86	83	79	72	65	59
800	84	83	83	83	82	81	79	83	83	83	84	87	87	83	82	76	69	62	56
1000	83	83	82	82	82	80	79	82	82	81	83	86	86	83	80	74	67	61	54
1250	86	87	89	88	87	83	81	83	81	81	82	85	86	82	80	72	65	58	52
1600	89	88	88	88	88	86	85	84	83	81	82	84	85	81	78	70	64	57	50
2000	94	95	96	98	98	98	95	92	92	89	87	86	86	84	79	71	64	57	51
2500	88	88	87	87	88	85	85	84	83	81	81	81	82	80	75	67	61	54	47
3150	88	87	87	87	87	85	85	85	83	82	81	81	81	80	75	66	59	53	46
4000	93	93	92	93	93	91	92	93	90	86	84	83	83	80	76	66	59	53	46
5000	87	87	86	87	86	85	85	85	84	84	82	81	80	78	74	65	58	51	45
6300	86	85	86	86	86	85	84	85	87	91	90	89	89	83	79	68	61	54	48
8000	83	82	82	83	82	81	81	81	80	82	81	84	84	80	76	67	60	54	47
10000	77	77	76	77	77	76	75	75	74	75	75	75	75	72	68	58	51	44	38
OVERALL	100	100	101	101	101	100	99	99	99	99	99	101	102	103	103	98	92	85	78

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
80% RPM, ENGINE RUNUP
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.6 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 02
AIRCRAFT CODE 519
OPERATION CODE 06019
PROFILE VERSION A
13 DEC 76
PAGE 02

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	116.6	116.4	116.7	117.4	117.6	116.7	115.3	116.1	114.5	114.2	113.8	114.5	114.7	112.3	110.0	103.4	96.7	89.8	82.4
250	114.2	114.0	114.5	115.1	115.4	114.5	113.0	113.8	112.2	111.8	111.4	112.1	112.4	110.0	107.9	101.3	94.5	87.4	80.0
315	111.8	111.6	112.2	112.8	113.1	112.2	110.6	111.4	109.8	109.3	108.9	109.6	109.9	107.7	105.7	99.2	92.3	85.1	77.6
400	109.3	109.1	109.8	110.5	110.7	109.8	108.3	108.9	107.3	106.6	106.3	107.0	107.3	105.4	103.4	96.9	90.0	82.6	75.2
500	106.6	106.7	107.4	108.0	108.3	107.4	105.8	106.2	104.9	103.8	103.5	104.3	104.6	102.9	101.1	94.6	87.6	80.1	72.7
630	103.9	104.1	104.8	105.5	105.7	104.8	103.2	103.4	102.3	101.0	100.5	101.3	101.8	100.4	98.6	92.2	85.0	77.5	70.0
800	101.2	101.4	102.1	102.8	103.0	102.1	100.5	100.4	99.6	98.2	97.8	98.4	99.2	97.7	95.8	89.6	82.2	74.7	67.4
1000	98.3	98.5	99.2	99.9	100.2	99.3	97.6	97.1	96.7	95.3	94.9	95.6	96.3	94.9	93.0	86.6	79.1	71.8	64.7
1250	95.3	95.5	96.2	96.9	97.2	96.3	94.6	94.1	93.6	92.2	91.8	92.5	93.2	92.0	89.8	83.2	76.0	68.9	61.7
1600	92.0	92.2	92.9	93.6	93.9	93.0	91.3	90.8	90.3	88.9	88.4	89.2	90.1	88.3	86.6	80.0	72.9	65.8	58.3
2000	88.4	88.6	89.4	90.1	90.4	89.5	87.7	87.2	86.8	85.3	84.9	85.9	86.8	85.6	83.2	76.7	69.6	62.5	54.7
2500	84.6	84.8	85.6	86.3	86.6	85.7	83.8	83.3	82.9	81.3	80.9	82.2	82.9	81.5	79.2	72.7	65.6	58.1	50.0
3150	80.3	80.5	81.3	82.0	82.3	81.4	79.5	79.0	78.6	77.0	76.6	78.1	78.5	77.3	75.0	68.4	61.1	53.3	44.7
4000	75.5	75.7	76.6	77.2	77.5	76.6	74.6	74.1	73.7	72.1	71.7	73.6	74.1	72.7	70.3	63.6	56.1	47.9	38.5
5000	70.2	70.4	71.3	72.0	72.3	71.3	69.3	68.8	68.4	66.7	66.4	68.6	69.2	67.7	65.3	58.4	50.7	42.0	31.8
6300	64.2	64.5	65.3	66.0	66.3	65.3	63.3	62.8	62.5	60.8	60.7	63.5	64.0	62.5	60.0	53.0	44.5	34.6	22.8
8000	57.9	58.1	59.0	59.6	59.8	58.8	56.8	56.7	56.4	55.9	56.4	59.4	59.8	58.4	55.9	48.8	39.8	28.4	13.9
10000	50.6	50.8	51.7	52.2	52.4	51.3	49.4	50.7	50.8	51.0	51.8	54.9	55.3	53.9	51.5	43.6	33.1	21.6	4.9
12500	43.5	43.3	43.4	43.1	42.9	41.8	41.1	44.9	45.1	45.7	46.4	50.1	50.4	49.1	46.3	37.9	26.9	12.4	
16000	36.3	36.1	36.4	36.1	35.5	34.1	33.6	37.8	38.0	39.0	40.0	44.2	44.6	43.3	40.5	31.6	17.7	3.2	
20000	26.9	26.7	26.8	26.5	25.5	23.9	25.0	30.3	30.6	31.8	32.5	37.3	37.8	36.7	33.8	20.6	8.5		
25000	14.9	15.5	15.6	15.3	12.9	9.6	12.3	19.9	20.0	21.8	22.8	29.4	29.5	29.0	24.8	7.4			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 02
AIRCRAFT CODE 519
OPERATION CODE 06019
PROFILE VERSION A
13 DEC 76
PAGE E2

NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
80% RPM, ENGINE RUNUP
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.6 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	118.7	118.8	119.5	120.7	121.2	120.7	118.6	118.9	117.6	116.7	115.8	115.6	115.8	113.5	110.6	103.4	96.7	89.8	82.4
250	116.3	116.5	117.3	118.4	118.9	118.5	116.3	116.6	115.3	114.3	113.3	113.3	113.4	111.1	108.5	101.3	94.5	87.4	80.0
315	113.9	114.1	115.0	116.1	116.6	115.2	113.9	114.2	112.9	111.8	110.8	110.8	111.0	108.8	106.3	99.2	92.3	85.1	77.5
400	111.4	111.6	112.7	113.8	114.3	113.8	111.5	111.7	110.4	109.1	108.2	108.2	108.4	106.5	104.0	96.9	90.0	82.6	75.2
500	108.7	109.1	110.2	111.3	111.8	111.4	109.1	109.0	108.0	106.3	105.4	105.4	105.7	104.1	101.7	94.6	87.6	80.1	72.7
630	106.0	106.5	107.7	108.8	109.3	108.8	106.5	106.2	105.4	103.5	102.4	102.5	102.9	101.5	99.1	92.2	85.0	77.5	70.0
800	103.3	103.8	105.0	106.1	106.6	106.2	103.8	103.2	102.7	100.8	99.7	99.6	100.2	98.9	96.4	89.6	82.2	74.7	67.4
1000	100.4	101.0	102.1	103.2	103.8	103.3	100.9	100.0	99.8	97.8	96.8	96.7	97.4	96.0	93.6	86.6	79.1	71.8	64.7
1250	97.4	97.9	99.1	100.2	100.7	100.3	97.8	96.9	96.8	94.7	93.7	93.6	94.3	93.1	90.4	83.2	76.0	68.9	61.7
1600	94.1	94.6	95.8	96.9	97.5	97.0	94.5	93.6	93.5	91.4	90.3	90.3	91.1	90.0	87.2	80.0	72.9	65.8	58.3
2000	90.5	91.1	92.3	93.4	94.0	93.5	91.0	90.0	89.9	87.8	86.8	87.1	87.9	86.7	83.8	76.7	69.6	62.5	54.7
2500	86.7	87.2	88.5	89.6	90.1	89.7	87.1	86.1	86.0	83.8	82.8	83.3	84.0	82.7	79.8	72.7	65.6	58.1	50.0
3150	82.4	82.9	84.2	85.3	85.9	85.4	82.3	81.8	81.7	79.5	78.5	79.2	79.6	78.4	75.6	68.4	61.1	53.3	44.7
4000	77.2	77.7	78.9	79.9	80.4	79.8	77.2	76.4	76.2	74.1	73.3	74.5	74.9	73.5	70.8	63.6	56.1	47.9	38.6
5000	71.4	71.9	73.0	73.9	74.4	73.7	71.2	70.5	70.3	68.2	67.5	69.3	69.8	68.4	65.7	58.4	50.7	42.0	31.8
6300	65.0	65.4	66.5	67.3	67.7	66.9	64.6	64.0	63.7	61.8	61.4	64.0	64.5	62.9	60.3	53.0	44.5	34.6	22.8
8000	58.3	58.6	59.5	60.2	60.5	59.6	57.5	57.2	57.0	56.4	56.8	59.6	60.0	58.7	56.0	48.8	39.8	28.4	13.9
10000	50.6	50.8	51.7	52.2	52.4	51.3	49.4	50.7	50.8	51.0	51.8	54.9	55.3	53.9	51.5	43.6	33.1	21.6	4.9
12500	43.5	43.3	43.4	43.1	42.9	41.8	41.1	44.9	45.1	45.7	46.4	50.1	50.4	49.1	46.3	37.9	26.9	12.4	
16000	36.3	36.1	36.4	36.1	35.5	34.1	33.6	37.8	38.0	39.0	40.0	44.2	44.6	43.3	40.5	31.6	17.7	3.2	
20000	26.9	26.7	26.8	26.5	25.5	23.9	25.0	30.3	30.6	31.8	32.5	37.3	37.8	36.7	33.8	20.6	8.5		
25000	14.9	15.5	15.6	15.3	12.9	9.6	12.3	19.9	20.6	21.8	22.8	29.4	29.5	29.0	24.8	7.4			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
80% RPM, ENGINE RUNUP
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.6 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 02
AIRCRAFT CODE 519
OPERATION CODE 06019
PROFILE VERSION A
13 DEC 76
PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	102.7	102.7	103.2	103.9	104.2	103.1	101.5	101.1	100.0	99.2	98.6	99.6	100.0	97.7	95.1	88.3	81.7	75.0	68.3
250	100.5	100.4	101.0	101.7	102.0	100.9	99.2	98.8	97.7	96.8	96.3	97.4	97.8	95.5	93.0	86.3	79.6	72.9	66.3
315	98.1	98.1	98.7	99.4	99.7	98.6	96.9	96.5	95.4	94.4	93.9	95.1	95.6	93.3	90.9	84.2	77.5	70.8	64.2
400	95.8	95.8	96.4	97.1	97.4	96.3	94.5	94.1	93.0	92.0	91.5	92.8	93.3	91.1	88.7	82.1	75.4	68.7	62.1
500	93.3	93.3	94.0	94.6	94.9	93.9	92.1	91.6	90.6	89.4	89.0	90.4	90.9	88.8	86.4	79.9	73.2	66.5	59.9
630	90.7	90.8	91.5	92.1	92.5	91.4	89.5	89.0	88.0	86.8	86.5	88.0	88.5	86.5	84.1	77.6	70.9	64.3	57.6
800	88.1	88.1	88.8	89.5	89.8	88.8	86.8	86.3	85.4	84.1	83.9	85.5	86.1	84.0	81.7	75.2	68.6	61.9	55.2
1000	85.3	85.3	86.1	86.8	87.1	86.1	84.0	83.5	82.6	81.3	81.2	83.0	83.6	81.5	79.2	72.8	66.1	59.5	52.8
1250	82.4	82.4	83.3	83.9	84.2	83.2	81.1	80.5	79.8	78.5	78.5	80.4	81.1	78.9	76.5	70.2	63.6	56.9	50.2
1600	79.3	79.4	80.2	80.9	81.2	80.2	78.0	77.4	76.8	75.6	75.8	77.8	78.4	76.2	73.8	67.6	60.9	54.2	47.6
2000	76.1	76.1	77.0	77.6	77.9	76.9	74.7	74.2	73.7	72.6	72.9	75.1	75.7	73.4	70.9	64.8	58.1	51.5	44.8
2500	72.6	72.7	73.6	74.1	74.4	73.4	71.1	70.8	70.3	69.4	69.8	72.1	72.7	70.3	67.7	61.7	55.0	48.3	41.7
3150	68.9	68.9	69.9	70.3	70.6	69.5	67.2	67.1	66.7	65.9	66.4	68.8	69.4	66.8	64.2	58.3	51.6	44.9	38.3
4000	64.9	64.9	65.8	66.1	66.3	65.2	62.9	63.1	62.7	62.0	62.6	65.1	65.7	62.9	60.4	54.5	47.8	41.1	34.5
5000	60.4	60.3	61.2	61.4	61.6	60.4	58.2	58.7	58.3	57.7	58.3	61.0	61.5	58.7	56.2	50.3	43.6	37.0	30.3
6300	55.6	55.3	56.2	56.3	56.3	55.0	52.9	53.9	53.5	53.1	53.8	56.6	57.1	54.2	51.8	45.9	39.2	32.6	25.9
8000	50.6	50.3	51.0	50.8	50.7	49.3	47.0	49.4	49.0	49.0	49.8	52.7	53.2	50.4	48.0	42.2	35.6	28.9	22.2
10000	45.3	44.9	45.5	45.1	44.9	43.4	42.0	44.7	44.4	44.7	45.6	48.5	49.0	46.4	44.0	38.3	31.6	25.0	18.3
12500	39.7	39.4	39.7	39.3	38.9	37.6	36.6	39.8	39.6	40.1	41.0	44.0	44.4	42.1	39.8	34.1	27.4	20.7	14.1
16000	33.8	33.6	33.7	33.3	32.9	31.8	31.1	34.6	34.6	35.2	36.1	39.0	39.4	37.4	35.2	29.6	22.9	16.2	9.6
20000	27.6	27.5	27.5	27.2	26.8	25.9	25.5	29.0	29.1	29.8	30.7	33.6	34.0	32.5	30.5	24.8	18.1	11.4	4.8
25000	21.6	21.6	21.0	20.7	20.2	19.6	19.5	22.9	23.1	23.9	24.8	27.7	28.2	27.2	25.6	19.9	13.2	6.6	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
80% RPM, ENGINE RUNUP
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.6 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 02
AIRCRAFT CODE 519
OPERATION CODE 06019
PROFILE VERSION A
13 DEC 76
PAGE G2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	104.8	105.1	106.1	107.2	107.8	107.1	104.7	103.9	103.1	101.7	100.5	100.8	101.1	98.8	95.7	88.3	81.7	75.0	68.3
250	102.6	102.9	103.9	105.0	105.5	104.9	102.5	101.6	100.8	99.3	98.2	98.5	98.9	96.5	93.6	86.3	79.6	72.9	66.3
315	100.2	100.6	101.6	102.7	103.3	102.6	100.2	99.3	98.5	96.9	95.9	96.3	96.6	94.4	91.5	84.2	77.5	70.8	64.2
400	97.9	98.2	99.2	100.4	100.9	100.3	97.8	96.9	96.1	94.5	93.4	93.9	94.3	92.2	89.3	82.1	75.4	68.7	62.1
500	95.4	95.7	96.8	98.0	98.5	97.9	95.3	94.4	93.7	91.9	91.0	91.6	92.0	89.9	87.0	79.9	73.2	66.5	59.9
630	92.8	93.2	94.3	95.4	96.0	95.4	92.8	91.8	91.1	89.3	88.4	89.1	89.6	87.5	84.7	77.6	70.9	64.3	57.6
800	90.2	90.6	91.7	92.8	93.4	92.8	90.1	89.1	88.5	86.6	85.8	86.7	87.2	85.2	82.3	75.2	68.6	61.9	55.2
1000	87.4	87.8	89.0	90.1	90.7	90.1	87.3	86.3	85.8	83.8	83.2	84.2	84.7	82.7	79.8	72.8	66.1	59.5	52.8
1250	84.5	84.9	86.1	87.2	87.8	87.2	84.4	83.3	82.9	81.0	80.5	81.6	82.1	80.0	77.1	70.2	63.6	56.9	50.2
1500	81.4	81.8	83.1	84.2	84.8	84.2	81.2	80.3	79.9	78.1	77.7	78.9	79.5	77.3	74.4	67.6	60.9	54.2	47.6
2000	78.2	78.6	79.9	80.9	81.5	80.9	77.9	77.1	76.8	75.1	74.8	76.2	76.8	74.5	71.5	64.8	58.1	51.5	44.8
2500	74.8	75.1	76.5	77.4	78.0	77.4	74.4	73.6	73.5	71.9	71.7	73.2	73.7	71.4	68.3	61.7	55.0	48.3	41.7
3150	71.1	71.4	72.7	73.6	74.2	73.5	70.5	70.0	69.8	68.4	68.3	69.9	70.4	67.9	64.8	58.3	51.6	44.9	38.3
4000	66.6	66.8	68.1	68.8	69.2	68.4	65.6	65.4	65.2	64.0	64.1	66.0	66.5	63.8	60.9	54.5	47.8	41.1	34.5
5000	61.7	61.8	62.9	63.4	63.7	62.8	60.1	60.4	60.1	59.2	59.5	61.7	62.2	59.4	56.6	50.3	43.6	37.0	30.3
6300	56.4	56.3	57.4	57.6	57.7	56.6	54.2	55.0	54.7	54.1	54.6	57.0	57.6	54.7	52.0	45.9	39.2	32.5	25.9
8000	51.0	50.7	51.6	51.5	51.5	50.1	48.2	49.9	49.6	49.5	50.2	52.9	53.4	50.7	48.2	42.2	35.6	28.9	22.2
10000	45.3	44.9	45.5	45.1	44.9	43.4	42.0	44.7	44.4	44.7	45.6	48.5	49.0	46.4	44.0	38.3	31.6	25.0	18.3
12500	39.7	39.4	39.7	39.3	38.9	37.6	36.6	39.8	39.6	40.1	41.0	44.0	44.4	42.1	39.8	34.1	27.4	20.7	14.1
16000	33.8	33.6	33.7	33.3	32.9	31.8	31.1	34.6	34.6	35.2	36.1	39.0	39.4	37.4	35.2	29.6	22.9	16.2	9.5
20000	27.6	27.5	27.5	27.2	26.8	25.9	25.5	29.0	29.1	29.8	30.7	33.6	34.0	32.5	30.5	24.8	18.1	11.4	4.8
25000	21.0	21.0	21.0	20.7	20.2	19.6	19.5	22.9	23.1	23.9	24.8	27.7	28.2	27.2	25.6	19.9	13.2	6.6	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

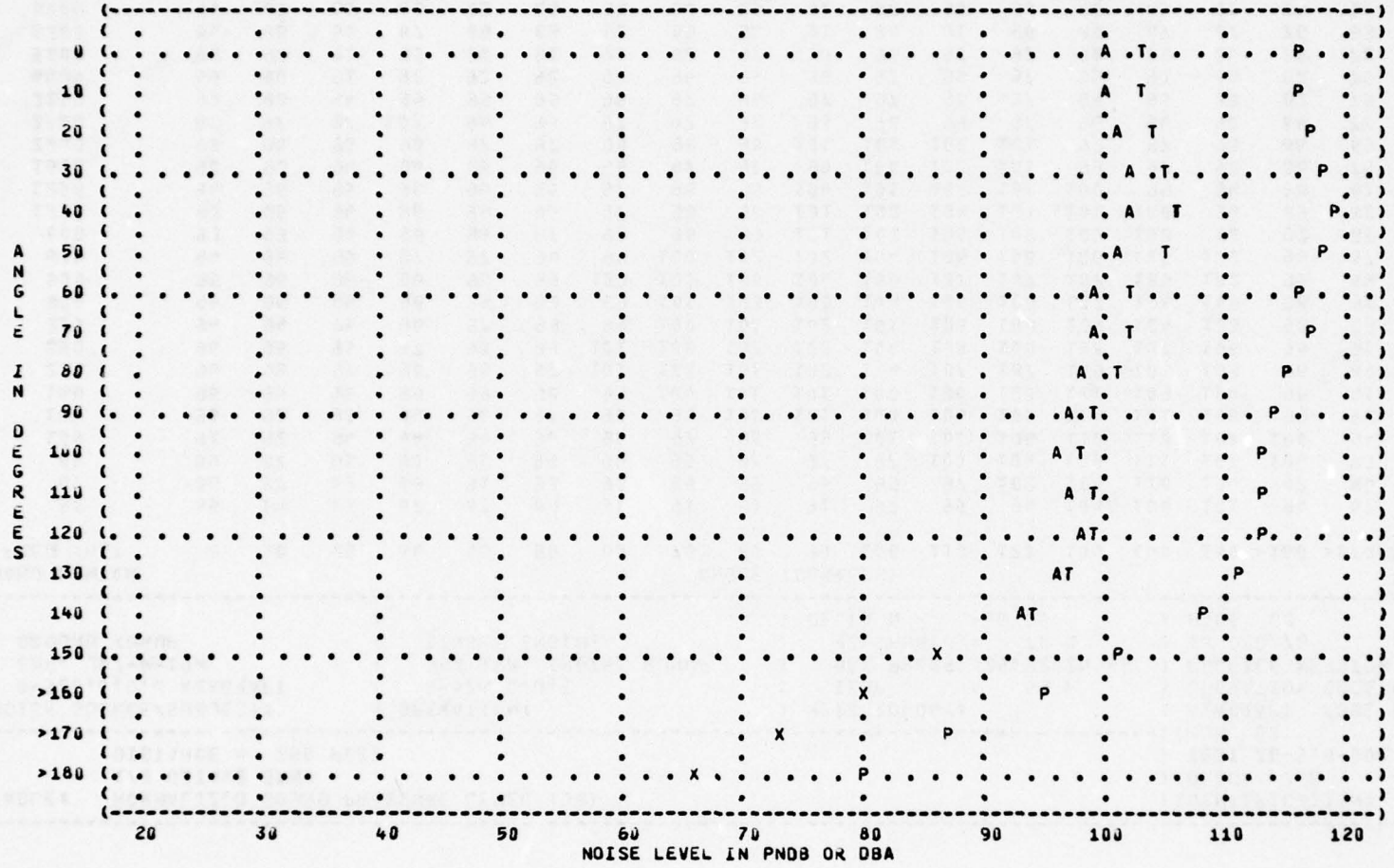
NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
80% RPM, ENGINE RUNUP
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.6 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 02
AIRCRAFT CODE 519
OPERATION CODE 06019
PROFILE VERSION A
13 DEC 76
PAGE J2

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 03
AIRCRAFT CODE 519
OPERATION CODE 01017
PROFILE VERSION A
13 DEC 76
PAGE C3

NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
90% RPM, ENGINE RUNUP
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -.6 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
50	85	84	85	87	87	89	91	91	90	91	92	95	98	104	104	101	94	87	81
63	86	87	89	89	91	93	93	95	95	95	95	97	102	108	110	104	97	90	84
80	89	87	91	90	91	93	94	95	97	97	97	100	104	109	111	107	100	93	87
100	91	92	94	94	94	96	96	97	98	99	101	102	106	110	113	107	100	94	87
125	93	92	93	94	96	97	98	99	101	101	103	106	108	111	111	106	99	92	86
160	95	95	96	99	99	98	99	100	101	101	103	108	108	111	109	104	98	91	84
200	96	96	97	98	98	97	101	101	101	102	104	107	107	109	108	103	96	89	83
250	96	96	96	97	98	98	101	100	102	102	104	108	108	108	107	105	98	91	85
315	94	94	95	96	97	99	99	100	101	102	101	106	109	104	104	103	96	89	83
400	95	95	96	98	99	99	99	101	103	103	104	106	108	107	106	105	98	91	85
500	95	96	96	96	98	99	100	101	103	104	104	107	107	107	105	102	95	89	82
630	94	95	95	97	97	98	99	100	102	102	104	106	108	106	105	100	94	87	80
800	93	95	94	95	96	97	96	98	99	101	103	105	105	103	103	98	92	85	78
1000	93	95	94	96	96	96	97	98	98	101	102	104	104	101	100	96	89	82	76
1250	94	96	95	96	96	95	97	98	98	100	101	103	102	100	99	94	88	81	74
1600	90	93	94	94	95	95	96	97	97	99	100	102	101	99	97	93	86	79	73
2000	95	96	96	96	97	97	98	98	98	101	101	102	101	99	97	93	86	80	73
2500	97	97	97	101	96	98	97	97	97	98	98	99	97	96	94	90	84	77	70
3150	93	93	94	95	95	95	96	97	96	97	97	98	97	95	93	89	82	75	69
4000	89	90	91	92	92	92	92	94	95	96	97	98	97	95	93	88	82	75	68
5000	90	90	91	91	91	91	91	92	92	93	93	93	92	91	89	85	78	72	65
6300	85	86	85	87	88	88	88	89	90	91	90	91	90	89	87	82	76	69	62
8000	84	85	85	86	86	86	86	88	89	91	90	90	90	88	85	80	74	67	60
10000	77	79	79	79	80	80	80	82	83	85	85	85	85	83	80	75	68	62	55
OVERALL	107	107	108	109	109	110	111	112	113	114	115	117	118	120	120	115	109	102	95

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
90% RPM, ENGINE RUNUP
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -.6 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 03
AIRCRAFT CODE 519
OPERATION CODE 01017
PROFILE VERSION A
13 DEC 76
PAGE D3

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	121.2	121.6	122.1	124.2	123.2	123.6	123.7	124.5	124.9	126.1	126.6	128.4	128.4	127.7	126.8	123.4	116.7	110.0	103.3
250	119.0	119.4	119.9	122.0	121.0	121.4	121.5	122.3	122.7	124.0	124.5	126.2	126.3	125.5	124.7	121.3	114.6	107.9	101.1
315	116.7	117.2	117.7	119.7	118.7	119.2	119.2	120.0	120.4	121.7	122.2	124.0	124.1	123.5	122.5	119.1	112.5	105.7	99.0
400	114.4	114.8	115.3	117.4	116.4	116.9	116.9	117.6	118.1	119.4	119.9	121.7	121.8	121.3	120.3	116.9	110.3	103.5	96.7
500	111.9	112.4	112.9	114.9	114.0	114.4	114.5	115.2	115.6	117.0	117.6	119.3	119.5	119.0	118.1	114.7	108.0	101.3	94.5
630	109.4	109.8	110.3	112.4	111.4	111.9	112.0	112.6	113.1	114.5	115.1	116.9	117.1	116.5	115.8	112.4	105.7	98.9	92.1
800	106.7	107.2	107.7	109.7	108.8	109.2	109.3	109.9	110.4	111.9	112.5	114.3	114.6	114.2	113.3	110.0	103.2	96.5	89.5
1000	103.9	104.3	104.8	106.9	105.9	106.4	106.5	107.1	107.6	109.2	109.7	111.6	112.1	111.6	110.8	107.5	100.7	93.9	86.9
1250	100.8	101.2	101.7	103.8	102.9	103.4	103.5	104.1	104.7	106.2	106.8	108.7	109.4	108.9	108.1	104.8	98.0	91.1	84.2
1600	97.5	97.9	98.4	100.5	99.6	100.1	100.2	100.8	101.5	103.1	103.7	105.7	106.5	106.0	105.2	102.0	95.1	88.2	81.3
2000	93.9	94.4	94.8	96.9	96.0	96.5	96.7	97.4	98.4	99.7	100.3	102.6	103.4	102.9	102.2	98.9	92.0	85.1	78.2
2500	89.9	90.4	90.9	92.9	92.0	92.5	92.9	93.6	94.9	96.0	96.8	99.2	99.7	99.5	98.4	95.1	88.1	81.2	74.3
3150	85.4	86.0	86.4	88.5	87.6	88.1	88.7	89.6	90.9	92.0	92.9	95.2	96.0	95.5	94.5	90.7	83.8	76.9	70.0
4000	80.5	81.3	81.8	83.5	82.9	83.7	84.2	85.2	86.4	87.6	88.6	91.0	91.7	91.0	90.1	85.9	79.0	72.1	65.0
5000	75.3	76.2	76.5	77.9	78.0	78.8	79.4	80.4	81.7	82.9	83.9	86.3	87.0	86.2	85.3	81.1	74.2	67.2	60.1
6300	69.8	71.0	71.1	72.5	72.9	73.8	74.3	75.4	76.6	77.9	78.9	81.3	82.1	81.3	80.4	76.2	69.2	62.1	54.8
8000	65.4	66.5	66.7	68.1	68.6	69.6	70.2	71.1	72.6	73.8	74.8	77.3	78.2	77.5	76.5	72.4	65.4	58.1	50.6
10000	60.9	62.0	62.3	63.4	64.2	65.2	65.8	66.8	68.4	69.5	70.4	73.0	73.9	73.5	72.4	68.4	61.2	53.8	45.9
12500	55.9	57.0	57.3	58.3	59.3	60.4	61.0	62.1	63.8	64.9	65.8	68.4	69.2	69.2	68.1	64.1	56.6	49.0	40.1
16000	50.3	51.6	51.8	52.8	53.9	55.1	55.8	56.8	58.6	59.7	60.7	63.4	64.2	64.4	63.4	59.2	51.7	43.3	33.8
20000	44.0	45.2	45.5	46.8	47.9	49.2	49.9	50.9	52.9	54.0	55.0	57.8	58.7	59.2	58.1	53.7	45.6	36.4	26.4
25000	36.4	37.6	38.0	39.2	40.8	42.1	42.9	44.2	46.4	47.4	48.5	51.6	52.6	53.2	52.1	47.8	39.0	28.2	14.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
90% RPM, ENGINE RUNUP
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -.6 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 03
AIRCRAFT CODE 519
OPERATION CODE 01017
PROFILE VERSION A
13 DEC 76
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	122.3	121.6	122.1	125.8	123.2	123.6	123.7	124.5	124.9	126.1	126.6	128.4	128.4	127.7	126.8	123.4	116.7	110.0	103.3
250	120.1	119.4	119.9	123.6	121.0	121.4	121.5	122.3	122.7	124.0	124.5	126.2	126.3	125.6	124.7	121.3	114.6	107.9	101.1
315	117.8	117.2	117.7	121.4	118.7	119.2	119.2	120.0	120.4	121.7	122.2	124.0	124.1	123.5	122.5	119.1	112.5	105.7	99.0
400	115.5	114.8	115.3	119.0	116.4	116.9	116.9	117.6	118.1	119.4	119.9	121.7	121.8	121.3	120.3	116.9	110.3	103.5	96.7
500	113.0	112.4	112.9	116.6	114.0	114.4	114.5	115.2	115.6	117.0	117.6	119.3	119.5	119.0	118.1	114.7	108.0	101.3	94.5
630	110.5	109.8	110.3	114.0	111.4	111.9	112.0	112.6	113.1	114.5	115.1	116.9	117.1	116.6	115.8	112.4	105.7	98.9	92.1
800	107.8	107.2	107.7	111.4	108.8	109.2	109.3	109.9	110.4	111.9	112.5	114.3	114.6	114.2	113.3	110.0	103.2	96.5	89.5
1000	104.9	104.3	104.8	108.5	105.9	106.4	106.5	107.1	107.6	109.2	109.7	111.6	112.1	111.6	110.8	107.5	100.7	93.9	86.9
1250	101.9	101.2	101.7	105.5	102.9	103.4	103.5	104.1	104.7	106.2	106.8	108.7	109.4	108.9	108.1	104.8	98.0	91.1	84.2
1500	98.5	97.9	98.4	102.2	99.6	100.1	100.2	100.8	101.5	103.1	103.7	105.7	106.5	105.8	105.2	102.0	95.1	88.2	81.3
2000	94.9	94.4	94.8	98.6	96.0	96.5	96.7	97.4	98.4	99.7	100.3	102.6	103.4	102.9	102.2	98.9	92.0	85.1	78.2
2500	90.9	90.4	90.9	94.8	92.0	92.5	92.9	93.6	94.9	96.0	96.8	99.2	99.7	99.5	98.4	95.1	88.1	81.2	74.3
3150	86.5	86.0	86.4	90.1	87.6	88.1	88.7	89.6	90.9	92.0	92.9	95.2	96.0	95.8	94.5	90.7	83.8	76.9	70.0
4000	81.4	81.3	81.6	84.8	82.9	83.7	84.2	85.2	86.4	87.6	88.6	91.0	91.7	91.0	90.1	85.9	79.0	72.1	65.0
5000	76.0	76.2	76.5	78.9	78.0	78.8	79.4	80.4	81.7	82.9	83.9	86.3	87.0	86.2	85.3	81.1	74.2	67.2	60.1
6300	70.2	71.0	71.1	73.1	72.9	73.8	74.3	75.4	76.6	77.9	78.9	81.3	82.1	81.3	80.4	76.2	69.2	62.1	54.8
8000	65.7	66.5	66.7	68.4	68.6	69.6	70.2	71.1	72.6	73.8	74.8	77.3	78.2	77.5	76.5	72.4	65.4	58.1	50.6
10000	60.9	62.0	62.3	63.4	64.2	65.2	65.8	66.8	68.4	69.5	70.4	73.0	73.9	73.5	72.4	68.4	61.2	53.8	45.9
12500	55.9	57.0	57.3	58.3	59.3	60.4	61.0	62.1	63.8	64.9	65.8	68.4	69.2	69.2	68.1	64.1	56.6	49.0	40.1
16000	50.3	51.6	51.8	52.8	53.9	55.1	55.8	56.8	58.0	59.7	60.7	63.4	64.2	64.4	63.4	59.2	51.7	43.3	33.8
20000	44.0	45.2	45.5	46.8	47.9	49.2	49.9	50.9	52.9	54.0	55.0	57.8	58.7	59.2	58.1	53.7	45.6	36.4	26.4
25000	36.4	37.6	38.0	39.2	40.8	42.1	42.9	44.2	46.4	47.4	48.5	51.6	52.6	53.2	52.1	47.8	39.0	28.2	14.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 03
AIRCRAFT CODE 519
OPERATION CODE 01017
PROFILE VERSION A
13 DEC 76
PAGE F3

NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
90% RPM, ENGINE RUNUP
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -.6 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	106.8	107.7	107.9	109.4	109.1	109.5	109.8	110.7	111.4	112.9	113.7	115.8	116.0	114.5	113.4	109.8	103.1	96.5	89.8
250	104.7	105.5	105.7	107.2	106.9	107.3	107.7	108.6	109.3	110.8	111.5	113.7	113.9	112.5	111.4	107.7	101.0	94.4	87.7
315	102.4	103.3	103.5	105.0	104.8	105.1	105.5	106.4	107.1	108.6	109.4	111.6	111.8	110.4	109.3	105.6	99.0	92.3	85.6
400	100.2	101.1	101.2	102.8	102.5	102.9	103.3	104.2	104.9	106.4	107.2	109.4	109.7	108.2	107.2	103.5	96.9	90.2	83.5
500	97.9	98.8	98.9	100.4	100.2	100.6	101.0	101.9	102.7	104.2	105.0	107.2	107.5	106.0	105.0	101.4	94.7	88.0	81.4
630	95.5	96.4	96.6	98.1	97.9	98.3	98.7	99.6	100.4	101.9	102.7	104.9	105.2	103.8	102.7	99.1	92.5	85.8	79.1
800	93.0	94.0	94.1	95.6	95.4	95.9	96.3	97.2	98.0	99.5	100.4	102.6	103.0	101.5	100.5	96.9	90.2	83.5	76.9
1000	90.5	91.5	91.6	93.0	92.9	93.4	93.8	94.8	95.6	97.1	98.0	100.2	100.6	99.1	98.1	94.5	87.9	81.2	74.5
1250	87.8	88.9	88.9	90.3	90.3	90.8	91.2	92.2	93.0	94.6	95.5	97.7	98.1	96.7	95.6	92.1	85.4	78.7	72.1
1600	85.0	86.1	86.2	87.5	87.6	88.1	88.5	89.5	90.4	92.0	92.9	95.2	95.6	94.1	93.1	89.5	82.9	76.2	69.5
2000	82.1	83.3	83.3	84.6	84.8	85.3	85.7	86.8	87.8	89.2	90.2	92.5	93.0	91.5	90.5	86.9	80.3	73.6	66.9
2500	78.9	80.2	80.1	81.4	81.7	82.2	82.6	83.8	84.8	86.3	87.3	89.6	90.0	88.6	87.5	83.9	77.2	70.5	63.9
3150	75.5	76.8	76.7	78.0	78.3	78.9	79.3	80.5	81.5	83.0	84.1	86.4	86.8	85.3	84.3	80.5	73.8	67.1	60.5
4000	71.7	73.2	73.0	74.2	74.6	75.2	75.6	76.8	77.8	79.4	80.5	82.8	83.2	81.6	80.6	76.7	70.1	63.4	56.7
5000	67.6	69.1	68.8	70.0	70.4	71.1	71.4	72.7	73.7	75.3	76.4	78.7	79.2	77.5	76.5	72.5	65.8	59.2	52.5
6300	63.1	64.7	64.3	65.5	66.0	66.7	67.0	68.3	69.3	70.9	72.0	74.4	74.8	73.2	72.2	68.1	61.4	54.7	48.1
8000	58.9	60.4	60.2	61.3	61.8	62.6	63.0	64.3	65.4	66.9	68.1	70.4	70.9	69.4	68.4	64.4	57.7	51.1	44.4
10000	54.4	55.9	55.7	56.8	57.4	58.3	58.6	59.9	61.2	62.6	63.8	66.2	66.8	65.4	64.4	60.4	53.8	47.1	40.4
12500	49.5	51.0	50.9	52.0	52.7	53.6	54.0	55.2	56.7	57.9	59.1	61.5	62.2	61.0	60.0	56.1	49.4	42.8	36.1
16000	44.3	45.6	45.6	46.8	47.5	48.5	48.9	50.1	51.7	52.8	54.0	56.4	57.2	56.2	55.1	51.4	44.7	38.1	31.4
20000	38.6	39.8	40.0	41.1	41.9	42.9	43.4	44.6	46.2	47.2	48.4	50.8	51.7	50.9	49.9	46.3	39.6	32.9	26.3
25000	32.5	33.6	33.8	35.0	35.9	36.8	37.4	38.5	40.2	41.1	42.2	44.7	45.7	45.2	44.3	40.7	34.1	27.4	20.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 03
AIRCRAFT CODE 519
OPERATION CODE 01017
PROFILE VERSION A
13 DEC 76
PAGE G3

NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
90% RPM, ENGINE RUNUP
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -.6 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	107.9	107.7	107.9	111.1	109.1	109.5	109.8	110.7	111.4	112.9	113.7	115.8	115.0	114.5	113.4	109.8	103.1	96.5	89.8
250	105.7	105.5	105.7	108.9	106.9	107.3	107.7	108.6	109.3	110.8	111.5	113.7	113.9	112.5	111.4	107.7	101.0	94.4	87.7
315	103.5	103.3	103.5	106.7	104.8	105.1	105.5	105.4	107.1	108.6	109.4	111.6	111.8	110.4	109.3	105.6	99.0	92.3	85.6
400	101.3	101.1	101.2	104.4	102.5	102.9	103.3	104.2	104.9	106.4	107.2	109.4	109.7	108.2	107.2	103.5	96.9	90.2	83.5
500	99.0	98.8	98.9	102.1	100.2	100.6	101.0	101.9	102.7	104.2	105.0	107.2	107.5	106.0	105.0	101.4	94.7	88.0	81.4
630	96.6	96.4	96.6	99.7	97.9	98.3	98.7	99.6	100.4	101.9	102.7	104.9	105.2	103.8	102.7	99.1	92.5	85.8	79.1
800	94.1	94.0	94.1	97.2	95.4	95.9	96.3	97.2	98.0	99.5	100.4	102.6	103.0	101.5	100.5	96.9	90.2	83.5	76.9
1000	91.5	91.5	91.6	94.7	92.9	93.4	93.8	94.8	95.6	97.1	98.0	100.2	100.6	99.1	98.1	94.5	87.9	81.2	74.5
1250	88.9	88.9	88.9	92.0	90.3	90.8	91.2	92.2	93.0	94.6	95.5	97.7	98.1	96.7	95.6	92.1	85.4	78.7	72.1
1500	86.1	86.1	86.2	89.2	87.6	88.1	88.5	89.5	90.4	92.0	92.9	95.2	95.6	94.1	93.1	89.5	82.9	76.2	69.5
2000	83.2	83.3	83.3	86.2	84.8	85.3	85.7	86.8	87.8	89.2	90.2	92.5	93.0	91.5	90.5	86.9	80.3	73.6	66.9
2500	80.0	80.2	80.1	83.1	81.7	82.2	82.6	83.8	84.8	86.3	87.3	89.6	90.0	88.5	87.5	83.9	77.2	70.5	63.9
3150	76.6	76.8	76.7	79.6	78.3	78.9	79.3	80.5	81.5	83.0	84.1	86.4	86.8	85.3	84.3	80.5	73.8	67.1	60.5
4000	72.6	73.2	73.0	75.5	74.6	75.2	75.6	76.8	77.8	79.4	80.5	82.8	83.2	81.6	80.6	76.7	70.1	63.4	56.7
5000	68.2	69.1	68.8	71.0	70.4	71.1	71.4	72.7	73.7	75.3	76.4	78.7	79.2	77.5	76.5	72.5	65.8	59.2	52.5
6300	63.5	64.7	64.3	66.1	66.0	66.7	67.0	68.3	69.3	70.9	72.0	74.4	74.8	73.2	72.2	68.1	61.4	54.7	48.1
8000	59.1	60.4	60.2	61.6	61.8	62.6	63.0	64.3	65.4	66.9	68.1	70.4	70.9	69.4	68.4	64.4	57.7	51.1	44.4
10000	54.4	55.9	55.7	56.8	57.4	58.3	58.6	59.9	61.2	62.6	63.8	66.2	65.8	65.4	64.4	60.4	53.8	47.1	40.4
12500	49.5	51.0	50.9	52.0	52.7	53.6	54.0	55.2	56.7	57.9	59.1	61.5	62.2	61.0	60.0	56.1	49.4	42.8	36.1
16000	44.3	45.8	45.8	46.8	47.5	48.3	48.9	50.1	51.7	52.8	54.0	56.4	57.2	56.2	55.1	51.4	44.7	38.1	31.4
20000	38.6	39.8	40.0	41.1	41.9	42.9	43.4	44.6	46.2	47.2	48.4	50.8	51.7	50.9	49.9	46.3	39.6	32.9	26.3
25000	32.5	33.6	33.8	35.0	35.9	36.8	37.4	38.5	40.2	41.1	42.2	44.7	45.7	45.2	44.3	40.7	34.1	27.4	20.7

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

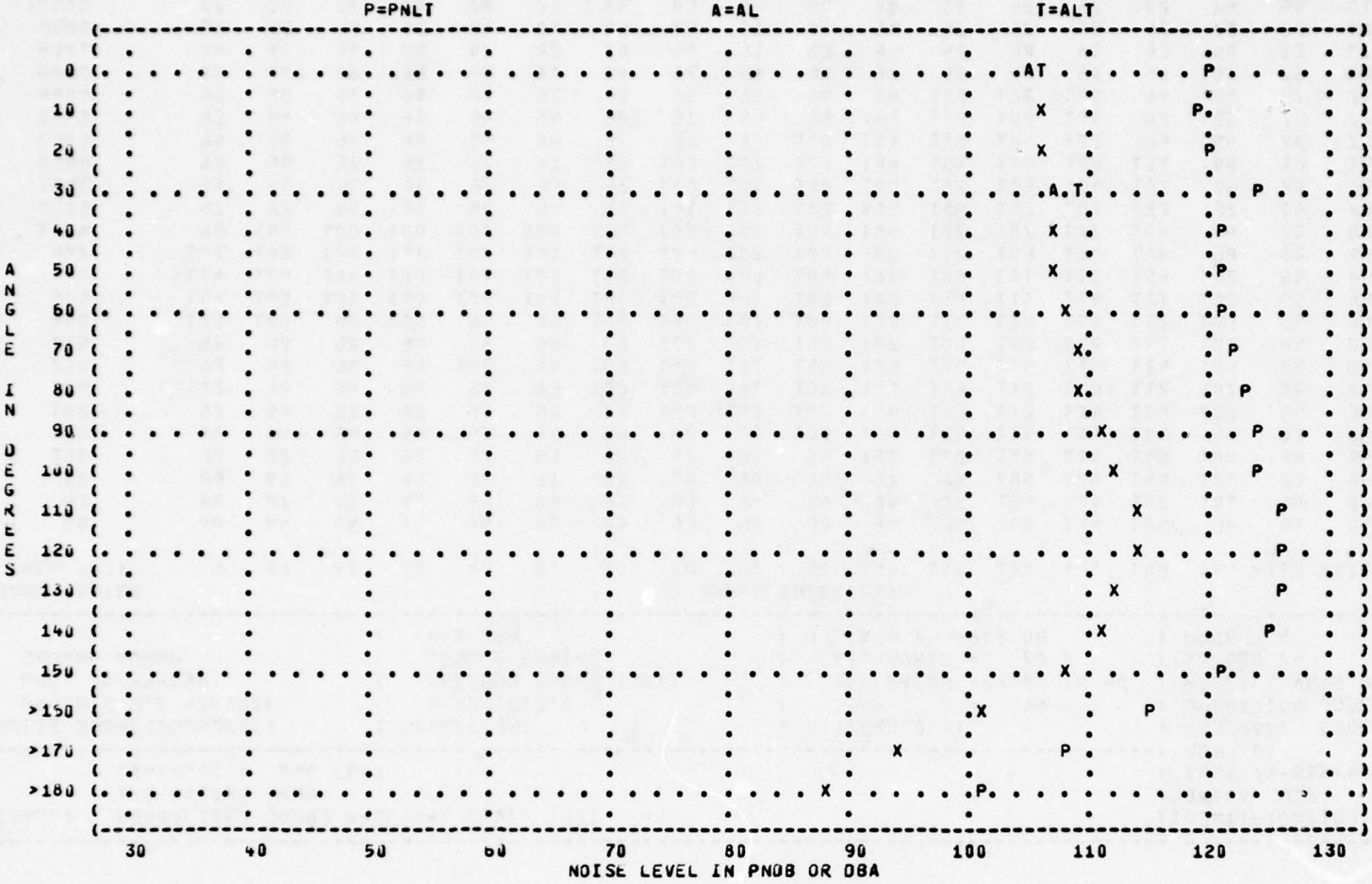
OPERATION:
B-52B,C,D,E
90% RPM, ENGINE RUNUP
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -.6 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 03
AIRCRAFT CODE 519
OPERATION CODE 01017
PROFILE VERSION A
13 DEC 76
PAGE J3

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 04
AIRCRAFT CODE 519
OPERATION CODE 06031
PROFILE VERSION A
13 DEC 76
PAGE C4

NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
MAXIMUM POWER (DRY)
SINGLE ENGINE
94% RPM

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.6 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
50	85	85	85	86	86	86	88	90	90	92	94	96	100	104	104	98	91	84	78
63	86	87	89	89	89	89	91	93	94	94	96	98	104	108	107	101	94	87	81
80	89	89	90	89	90	91	92	95	96	96	97	99	105	109	108	100	93	86	80
100	92	92	93	92	93	93	95	97	98	99	101	102	108	111	109	100	93	86	80
125	94	95	94	94	95	94	95	98	101	103	104	106	111	115	109	99	93	86	79
160	97	96	97	98	98	98	99	100	103	106	106	109	112	118	110	103	96	90	83
200	100	98	98	96	98	99	100	100	104	107	108	109	113	118	112	102	96	89	82
250	98	99	99	99	100	98	100	103	103	106	109	110	114	116	114	103	96	90	83
315	97	98	98	96	98	99	99	102	103	105	107	109	113	112	111	101	94	88	81
400	100	100	99	100	99	99	100	102	103	104	108	110	114	115	112	103	96	89	83
500	104	105	103	103	103	101	101	102	103	105	108	110	111	114	111	102	95	88	82
630	104	104	104	103	103	102	103	103	103	104	106	109	111	112	109	102	95	88	82
800	101	102	102	102	103	101	102	104	102	103	105	107	109	110	106	98	92	85	78
1000	98	100	100	100	100	100	101	103	102	103	104	107	107	107	104	95	88	82	75
1250	97	97	98	97	98	98	99	101	102	103	104	106	107	106	103	92	85	78	72
1600	95	96	96	96	97	96	97	100	101	102	103	106	106	104	102	89	83	76	69
2000	95	96	97	97	97	97	98	100	102	103	104	106	105	105	102	89	82	76	69
2500	95	96	96	96	96	96	97	98	99	100	101	103	104	102	99	86	80	73	66
3150	93	94	94	95	94	94	95	97	98	99	101	103	103	101	98	85	79	72	65
4000	90	90	91	91	92	92	93	95	97	98	99	101	102	100	96	84	77	71	64
5000	88	86	89	89	89	90	90	92	94	95	97	99	99	98	94	82	75	69	62
6300	85	86	86	86	87	87	88	90	92	93	95	98	98	96	93	80	73	67	60
8000	82	82	83	83	84	84	85	86	90	92	94	97	97	96	92	78	72	65	58
10000	77	77	78	78	78	79	80	83	86	88	90	94	95	92	88	74	68	61	54
OVERALL	111	112	111	111	111	111	112	113	114	116	118	120	123	125	122	113	106	99	93

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 04
AIRCRAFT CODE 519
OPERATION CODE 06031
PROFILE VERSION A
13 DEC 76
PAGE D4

NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
MAXIMUM POWER (DRY)
SINGLE ENGINE
94% RPM

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.6 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	122.5	123.2	123.2	123.2	123.5	123.0	124.1	125.9	127.1	128.4	129.9	132.1	133.4	134.3	131.0	121.0	114.3	107.6	100.9
250	120.3	121.0	121.0	121.0	121.3	120.8	121.9	123.7	124.9	126.2	127.7	129.9	131.2	132.1	128.9	118.9	112.2	105.5	98.7
315	118.0	118.8	118.8	118.8	119.1	118.6	119.7	121.5	122.7	124.0	125.5	127.7	129.0	130.0	126.8	116.8	110.1	103.3	96.5
400	115.7	116.5	116.4	116.5	116.8	116.3	117.4	119.2	120.4	121.7	123.2	125.4	126.8	127.8	124.6	114.6	107.9	101.1	94.3
500	113.4	114.1	114.0	114.1	114.3	113.8	115.0	116.8	118.0	119.3	120.8	123.0	124.5	125.5	122.3	112.3	105.6	98.8	92.0
630	111.1	111.6	111.5	111.6	111.8	111.3	112.4	114.3	115.5	116.8	118.3	120.5	122.1	123.1	119.9	110.0	103.3	96.5	89.6
800	108.6	109.1	108.9	108.9	109.2	108.7	109.8	111.7	112.9	114.2	115.7	117.9	119.6	120.7	117.5	107.6	100.8	94.0	87.1
1000	106.6	106.6	106.2	106.2	106.4	105.9	107.0	109.0	110.2	111.4	112.9	115.1	117.0	118.1	115.0	105.1	98.3	91.4	84.5
1250	103.3	103.9	103.5	103.4	103.6	102.9	104.1	106.0	107.2	108.5	110.0	112.2	114.3	115.4	112.3	102.4	95.6	88.7	81.8
1500	100.5	101.0	100.6	100.6	100.7	99.8	100.9	102.9	104.0	105.3	106.8	109.0	111.4	112.6	109.5	99.6	92.7	85.8	78.9
2000	97.5	98.0	97.5	97.5	97.6	96.7	97.7	99.5	100.6	101.9	103.7	105.7	108.4	109.5	106.5	96.6	89.7	82.8	75.9
2500	94.3	94.8	94.2	94.2	94.3	93.4	94.3	95.8	96.9	98.2	100.3	102.2	104.6	105.8	102.7	92.8	85.9	79.0	72.1
3150	90.4	90.9	90.7	90.4	90.7	89.7	90.6	91.9	92.7	94.0	96.3	98.3	100.3	101.6	98.5	88.9	82.1	75.1	68.2
4000	86.2	86.7	86.5	86.3	86.5	85.5	86.4	87.8	88.3	89.5	91.9	94.0	95.8	97.1	94.0	84.7	77.8	70.8	63.8
5000	81.5	82.1	81.9	81.6	81.9	80.9	81.7	83.3	83.5	84.6	87.2	89.3	91.1	92.4	89.3	80.0	73.1	66.1	58.8
6300	76.7	77.2	77.0	76.7	77.0	76.0	76.8	78.5	78.5	79.8	82.2	84.4	86.2	87.5	84.4	75.1	68.1	61.0	53.8
8000	72.7	73.2	72.9	72.6	72.9	71.7	72.6	74.1	74.3	75.6	78.2	80.2	82.2	83.7	80.6	71.3	64.2	56.9	49.5
10000	68.5	69.0	68.5	68.2	68.4	67.3	68.1	69.4	69.8	71.3	74.0	75.9	77.9	79.8	76.6	67.1	59.9	52.4	44.6
12500	63.9	64.4	63.5	63.5	63.5	62.3	63.2	64.3	64.8	66.7	69.4	71.3	73.4	75.5	72.3	62.7	55.3	47.7	39.0
16000	58.8	59.3	58.4	58.4	58.0	57.1	57.6	59.0	59.6	61.6	64.4	66.3	68.5	70.7	67.5	57.8	50.2	42.0	33.2
20000	53.1	53.5	52.5	52.6	52.2	51.2	51.8	53.2	53.8	55.8	58.9	60.7	63.1	65.6	62.2	52.4	44.2	35.2	25.2
25000	46.5	47.1	45.9	45.9	45.5	44.2	44.9	46.6	47.3	49.5	52.6	54.6	57.4	59.8	56.3	45.9	36.9	26.7	13.1

> SP_ DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
MAXIMUM POWER (DRY)
SINGLE ENGINE
94% RPM

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.6 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 04
AIRCRAFT CODE 519
OPERATION CODE 06031
PROFILE VERSION A
13 DEC 76
PAGE E4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	122.5	123.2	123.2	123.2	123.5	123.0	124.1	125.9	127.1	128.4	129.9	132.1	133.4	134.3	131.0	121.0	114.3	107.6	100.9
250	120.3	121.0	121.0	121.0	121.3	120.8	121.9	123.7	124.9	126.2	127.7	129.9	131.2	132.1	128.9	118.9	112.2	105.5	98.7
315	118.0	118.8	118.8	118.8	119.1	118.6	119.7	121.5	122.7	124.0	125.5	127.7	129.0	130.0	126.8	116.8	110.1	103.3	96.5
400	115.7	116.5	116.4	116.5	116.8	116.3	117.4	119.2	120.4	121.7	123.2	125.4	126.8	127.8	124.6	114.6	107.9	101.1	94.3
500	113.4	114.1	114.0	114.1	114.3	113.8	115.0	116.8	118.0	119.3	120.8	123.0	124.5	125.5	122.3	112.3	105.6	98.8	92.0
630	111.1	111.6	111.5	111.6	111.8	111.3	112.4	114.3	115.5	116.8	118.3	120.5	122.1	123.1	119.9	110.0	103.3	96.5	89.6
800	108.6	109.1	108.9	108.9	109.2	108.7	109.8	111.7	112.9	114.2	115.7	117.9	119.6	120.7	117.5	107.6	100.8	94.0	87.1
1000	106.0	106.6	106.2	106.2	106.4	105.9	107.0	109.0	110.2	111.4	112.9	115.1	117.0	118.1	115.0	105.1	98.3	91.4	84.5
1250	103.3	103.9	103.5	103.4	103.6	102.9	104.1	106.0	107.2	108.5	110.0	112.2	114.3	115.4	112.3	102.4	95.6	88.7	81.8
1600	100.5	101.0	100.6	100.6	100.7	99.8	100.9	102.9	104.0	105.3	106.8	109.0	111.4	112.5	109.5	99.6	92.7	85.8	78.9
2000	97.5	98.0	97.5	97.5	97.6	96.7	97.7	99.5	100.6	101.9	103.7	105.7	108.4	109.5	106.5	96.6	89.7	82.8	75.9
2500	94.3	94.8	94.2	94.2	94.3	93.4	94.3	95.8	96.9	98.2	100.3	102.2	104.6	105.8	102.7	92.8	85.9	79.0	72.1
3150	90.4	90.9	90.7	90.4	90.7	89.7	90.6	91.9	92.7	94.0	96.3	98.3	100.3	101.6	98.5	88.9	82.1	75.1	68.2
4000	86.2	86.7	86.5	86.3	86.5	85.5	86.4	87.8	88.3	89.5	91.9	94.0	95.8	97.1	94.0	84.7	77.8	70.8	63.8
5000	81.5	82.1	81.9	81.6	81.9	80.9	81.7	83.3	83.5	84.8	87.2	89.3	91.1	92.4	89.3	80.0	73.1	66.1	58.8
6300	76.7	77.2	77.0	76.7	77.0	76.0	76.8	78.5	78.5	79.8	82.2	84.4	86.2	87.5	84.4	75.1	68.1	61.0	53.8
8000	72.7	73.2	72.9	72.6	72.9	71.7	72.6	74.1	74.3	75.6	78.2	80.2	82.2	83.7	80.6	71.3	64.2	56.9	49.5
10000	68.5	69.0	68.5	68.2	68.4	67.3	68.1	69.4	69.8	71.3	74.0	75.9	77.9	79.8	76.6	67.1	59.9	52.4	44.6
12500	63.9	64.4	63.5	63.5	63.5	62.3	63.2	64.3	64.8	65.7	69.4	71.3	73.4	75.5	72.3	62.7	55.3	47.7	39.0
16000	58.8	59.3	58.4	58.4	58.0	57.1	57.6	59.0	59.6	61.6	64.4	66.3	68.5	70.7	67.5	57.8	50.2	42.0	33.2
20000	53.1	53.5	52.5	52.6	52.2	51.2	51.8	53.2	53.8	55.8	58.9	60.7	63.1	65.6	62.2	52.4	44.2	35.2	25.2
25000	48.5	47.1	45.9	45.9	45.5	44.2	44.9	46.6	47.3	49.5	52.6	54.6	57.4	59.8	56.3	45.9	36.9	26.7	13.1

> SPL DATA HERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 04
AIRCRAFT CODE 519
OPERATION CODE 06031
PROFILE VERSION A
13 DEC 76
PAGE F4

NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
MAXIMUM POWER (DRY)
SINGLE ENGINE
94% RPM

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.6 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	110.8	111.5	111.3	111.3	111.6	110.8	111.0	113.4	114.0	115.2	116.9	119.2	120.5	121.1	118.1	108.6	102.0	95.3	88.6
250	108.7	109.4	109.2	109.2	109.5	108.7	109.5	111.3	111.9	113.1	114.7	117.0	118.3	119.0	116.0	106.6	99.9	93.3	86.5
315	106.6	107.3	107.1	107.0	107.3	106.5	107.4	109.2	109.7	110.9	112.6	114.9	116.2	116.9	113.9	104.5	97.8	91.2	84.5
400	104.5	105.1	104.9	104.9	105.2	104.4	105.2	107.0	107.5	108.7	110.4	112.7	114.1	114.8	111.8	102.4	95.7	89.1	82.4
500	102.3	102.9	102.7	102.7	103.0	102.2	103.0	104.7	105.2	106.4	108.1	110.5	111.8	112.5	109.6	100.3	93.6	86.9	80.3
630	100.1	100.7	100.5	100.4	100.7	99.9	100.7	102.5	102.9	104.1	105.9	108.2	109.6	110.4	107.4	98.1	91.4	84.7	78.1
800	97.8	98.4	98.2	98.1	98.4	97.6	98.4	100.1	100.6	101.8	103.5	105.8	107.3	108.0	105.1	95.8	89.2	82.5	75.8
1000	95.5	96.1	95.9	95.8	96.1	95.2	96.0	97.7	98.1	99.3	101.1	103.4	104.9	105.7	102.8	93.5	86.9	80.2	73.5
1250	93.1	93.7	93.4	93.3	93.6	92.7	93.5	95.2	95.6	96.7	98.6	100.9	102.4	103.2	100.3	91.1	84.5	77.8	71.1
1500	90.6	91.2	90.9	90.8	91.1	90.2	90.9	92.6	92.9	94.1	96.0	98.3	99.8	100.7	97.8	88.7	82.0	75.4	68.7
2000	88.0	88.7	88.3	88.2	88.5	87.5	88.2	89.9	90.1	91.3	93.3	95.6	97.1	98.1	95.2	86.1	79.5	72.8	66.1
2500	85.3	85.9	85.5	85.4	85.6	84.7	85.4	87.0	87.1	88.3	90.3	92.6	94.1	95.0	92.2	83.2	76.6	69.9	63.2
3150	82.2	82.8	82.5	82.3	82.6	81.6	82.2	83.8	83.9	85.1	87.0	89.4	90.8	91.7	88.8	80.0	73.4	66.7	60.0
4000	78.7	79.3	79.0	78.8	79.1	78.1	78.7	80.3	80.3	81.4	83.3	85.7	87.1	87.9	85.1	76.4	69.7	63.1	56.4
5000	74.7	75.3	75.0	74.9	75.1	74.1	74.7	76.3	76.2	77.4	79.2	81.7	82.9	83.7	80.9	72.3	65.6	58.9	52.3
6300	70.4	71.0	70.7	70.6	70.9	69.8	70.4	72.0	71.9	73.0	74.8	77.3	78.5	79.3	76.5	67.9	61.2	54.6	47.9
8000	66.6	67.2	66.8	66.7	66.9	65.8	66.4	67.9	67.7	68.9	70.9	73.3	74.6	75.6	72.8	64.3	57.6	50.9	44.3
10000	62.5	63.1	62.8	62.5	62.6	61.5	62.1	63.5	63.3	64.5	66.7	69.0	70.5	71.6	68.8	60.3	53.6	47.0	40.3
12500	57.9	58.5	58.0	57.8	57.9	56.8	57.3	58.6	58.4	59.7	62.1	64.4	66.0	67.3	64.4	55.9	49.3	42.6	35.9
16000	52.9	53.5	52.8	52.7	52.7	51.5	52.0	53.2	53.2	54.6	57.1	59.3	61.1	62.5	59.7	51.1	44.5	37.8	31.1
20000	47.3	47.8	47.1	47.0	46.9	45.7	46.2	47.3	47.4	48.9	51.6	53.7	55.7	57.4	54.5	45.8	39.1	32.5	25.8
25000	41.6	41.5	40.7	40.6	40.4	39.3	39.7	40.8	41.1	42.8	45.6	47.6	49.9	51.7	48.7	39.9	33.3	26.6	19.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
MAXIMUM POWER (DRY)
SINGLE ENGINE
94% RPM

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.6 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 04
AIRCRAFT CODE 519
OPERATION CODE 06031
PROFILE VERSION A
13 DEC 76
PAGE G4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	110.8	111.5	111.3	111.3	111.6	110.8	111.6	113.4	114.0	115.2	116.9	119.2	120.5	121.1	118.1	108.6	102.0	95.3	88.5
250	108.7	109.4	109.2	109.2	109.5	108.7	109.5	111.3	111.9	113.1	114.7	117.0	118.3	119.0	116.0	106.6	99.9	93.3	86.6
315	106.6	107.3	107.1	107.0	107.3	106.5	107.4	109.2	109.7	110.9	112.6	114.9	116.2	116.9	113.9	104.5	97.8	91.2	84.5
400	104.5	105.1	104.9	104.9	105.2	104.4	105.2	107.0	107.5	108.7	110.4	112.7	114.1	114.8	111.8	102.4	95.7	89.1	82.4
500	102.3	102.9	102.7	102.7	103.0	102.2	103.0	104.7	105.2	106.4	108.1	110.5	111.8	112.6	109.6	100.3	93.6	86.9	80.3
630	100.1	100.7	100.5	100.4	100.7	99.9	100.7	102.5	102.9	104.1	105.9	108.2	109.6	110.4	107.4	98.1	91.4	84.7	78.1
800	97.8	98.4	98.2	98.1	98.4	97.6	98.4	100.1	100.6	101.8	103.5	105.8	107.3	108.0	105.1	95.8	89.2	82.5	75.8
1000	95.5	96.1	95.9	95.8	96.1	95.2	96.0	97.7	98.1	99.3	101.1	103.4	104.9	105.7	102.8	93.5	86.9	80.2	73.5
1250	93.1	93.7	93.4	93.3	93.6	92.7	93.5	95.2	95.6	96.7	98.6	100.9	102.4	103.2	100.3	91.1	84.5	77.8	71.1
1600	90.6	91.2	90.9	90.8	91.1	90.2	90.9	92.6	92.9	94.1	96.0	98.3	99.8	100.7	97.8	88.7	82.0	75.4	68.7
2000	88.0	88.7	88.3	88.2	88.5	87.5	88.2	89.9	90.1	91.3	93.3	95.6	97.1	98.1	95.2	86.1	79.5	72.8	66.1
2500	85.3	85.9	85.5	85.4	85.6	84.7	85.4	87.0	87.1	88.3	90.3	92.6	94.1	95.0	92.2	83.2	76.6	69.9	63.2
3150	82.2	82.8	82.5	82.3	82.6	81.6	82.2	83.8	83.9	85.1	87.0	89.4	90.8	91.7	88.8	80.0	73.4	66.7	60.0
4000	79.7	79.3	79.0	78.8	79.1	78.1	78.7	80.3	80.3	81.4	83.3	85.7	87.1	87.9	85.1	76.4	69.7	63.1	56.4
5000	74.7	75.3	75.0	74.9	75.1	74.1	74.7	76.3	76.2	77.4	79.2	81.7	82.9	83.7	80.9	72.3	65.6	58.9	52.3
6300	70.4	71.0	70.7	70.6	70.9	69.8	70.4	72.0	71.9	73.0	74.8	77.3	78.5	79.3	76.5	67.9	61.2	54.6	47.9
8000	66.6	67.2	66.8	66.7	66.9	65.8	66.4	67.9	67.7	68.9	70.9	73.3	74.6	75.6	72.8	64.3	57.6	50.9	44.3
10000	62.5	63.1	62.6	62.5	62.6	61.5	62.1	63.5	63.3	64.5	66.7	69.0	70.5	71.6	68.8	60.3	53.6	47.0	40.3
12500	57.9	58.5	58.0	57.8	57.9	56.8	57.3	58.6	58.4	59.7	62.1	64.4	66.0	67.3	64.4	55.9	49.3	42.6	35.9
16000	52.9	53.5	52.8	52.7	52.7	51.5	52.0	53.2	53.2	54.6	57.1	59.3	61.1	62.6	59.7	51.1	44.5	37.8	31.1
20000	47.3	47.8	47.1	47.0	46.9	45.7	46.2	47.3	47.4	48.9	51.6	53.7	55.7	57.4	54.5	45.8	39.1	32.5	25.8
25000	41.0	41.5	40.7	40.6	40.4	39.3	39.7	40.8	41.1	42.8	45.6	47.6	49.9	51.7	48.7	39.9	33.3	26.6	19.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

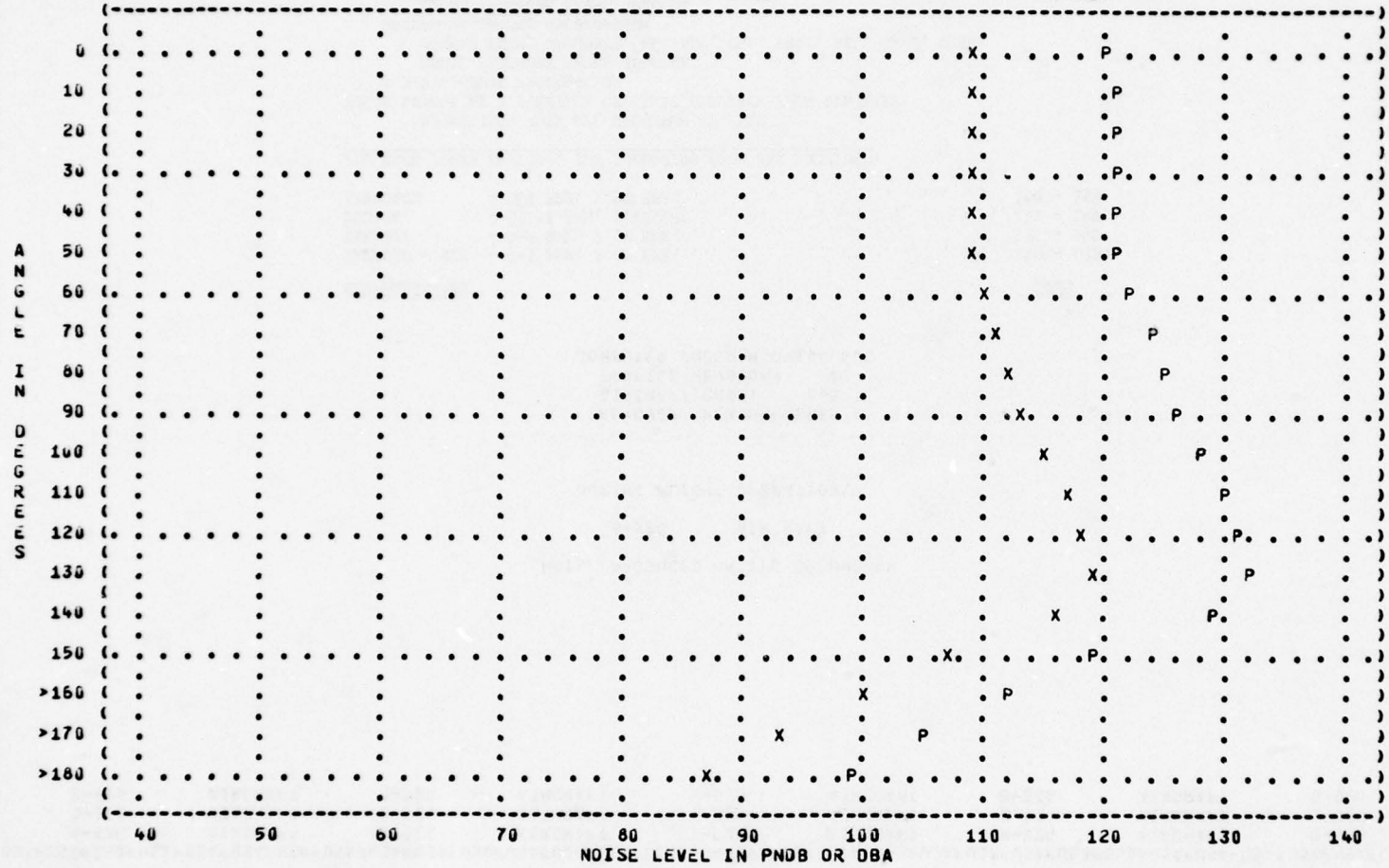
NOISE SOURCE/SUBJECT:
B-52B,C,D,E AIRCRAFT
ENG. J57-P-19W
GROUND RUNUP

OPERATION:
B-52B,C,D,E
MAXIMUM POWER (DRY)
SINGLE ENGINE
94% RPM

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.6 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-519-001
RUN 04
AIRCRAFT CODE 519
OPERATION CODE 06031
PROFILE VERSION A
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P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAF B-52G AIRCRAFT B-52G AIRCRAFT B-52G AIRCRAFT B-52G AIRCRAFT B-52G AIRCRAFT B-52G USAF

NOISE PRODUCED ON THE GROUND BY

B-52G AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 043
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

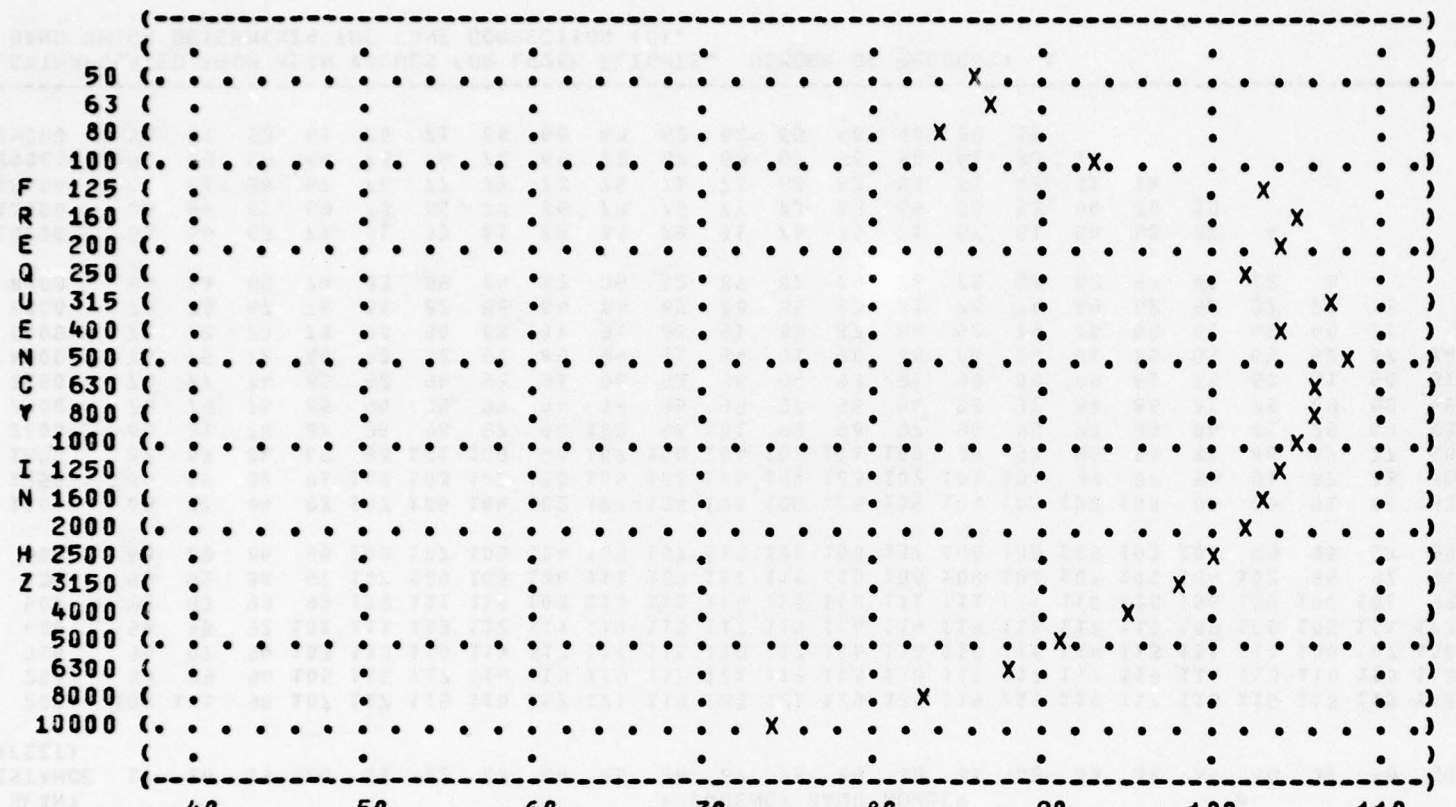
POWER SETTING		PAGE
TAKEOFF - WET	- 94% RPM, 2.77 EPR	123 - 131
TAKEOFF	- 94% RPM, 2.37 EPR	132 - 140
CRUISE	- 83.5% RPM, 1.48 EPR	141 - 149
APPROACH	- 86% RPM, 1.57 EPR	150 - 158

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
AIR-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF B-52G AIRCRAFT B-52G AIRCRAFT B-52G AIRCRAFT B-52G AIRCRAFT B-52G AIRCRAFT B-52G USAF



B-52G TAKEOFF-WET 94 % RPM 2.77 EPR

AIRSPEED = 170 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-043-102-041176

PNLT = 125.9 PNDB
PNL = 125.3 PNDB
ALT = 114.5 DBA
AL = 113.9 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-52G

OPERATION:
TAKEOFF-WET
94 % RPM 2.77 EPR
AIRSPEED = 170 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 043
OPS CODE: 102
PROFILE VER: A
04 NOV 76
PAGE H1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	100	101	98	107	117	119	118	117	121	119	123	121	120	120	119	119	119	117	116	115	113	113	113	111
250	98	99	96	105	115	117	116	115	119	117	121	119	118	118	117	117	117	115	114	113	110	110	110	107
315	96	97	94	103	113	115	114	113	117	115	119	117	116	116	115	115	114	113	111	111	108	107	106	104
400	94	95	92	101	111	113	112	111	115	113	117	115	114	114	113	113	112	110	109	108	105	104	103	99
500	92	93	90	99	109	111	110	108	113	111	114	113	112	111	111	111	110	108	106	105	102	101	99	94
630	90	91	88	97	107	109	108	106	111	109	112	111	110	109	109	108	107	105	104	102	99	97	94	89
800	88	89	86	95	105	107	106	104	109	107	110	108	108	107	106	106	105	103	101	99	95	93	89	82
1000	86	87	84	93	103	105	104	102	107	<104	108	106	106	105	104	103	102	100	98	95	91	88	83	74
1250	84	85	82	91	100	103	102	100	105	102	106	104	103	102	101	101	99	97	94	91	87	83	76	65
1600	82	83	80	89	98	101	100	98	103	100	104	102	101	100	99	98	96	93	90	86	82	77	68	54
2000	80	81	78	87	96	98	97	96	100	98	101	99	98	97	96	95	93	90	86	81	76	69	58	40
2500	78	79	76	85	94	96	95	94	98	95	99	97	96	94	93	92	89	86	81	75	69	60	46	24
3150	76	77	74	82	92	94	93	91	96	93	96	94	93	91	90	88	85	81	75	68	61	50	31	3
4000	74	75	72	80	90	92	91	89	94	91	94	91	90	88	86	84	81	75	69	59	52	37	14	
5000	72	72	70	78	88	90	88	87	91	88	91	88	87	84	82	79	76	69	61	49	40	21		
6300	70	70	67	76	86	87	86	84	88	85	88	85	83	81	78	74	69	62	52	37	26	2		
8000	68	68	65	74	83	85	84	82	86	82	85	82	79	76	72	68	62	53	40	22	8			
10000	66	66	63	71	81	83	81	79	83	79	81	78	75	71	67	61	54	42	27	4				
12500	63	64	61	69	78	80	78	76	79	75	77	73	69	65	60	53	44	30	10					
16000	61	61	58	67	76	77	75	73	76	71	73	68	63	58	51	42	31	14						
20000	59	59	56	64	73	74	72	69	72	67	68	62	56	50	41	30	16							
25000	56	57	53	61	70	71	68	65	68	62	62	55	48	40	29	15								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
B-52G

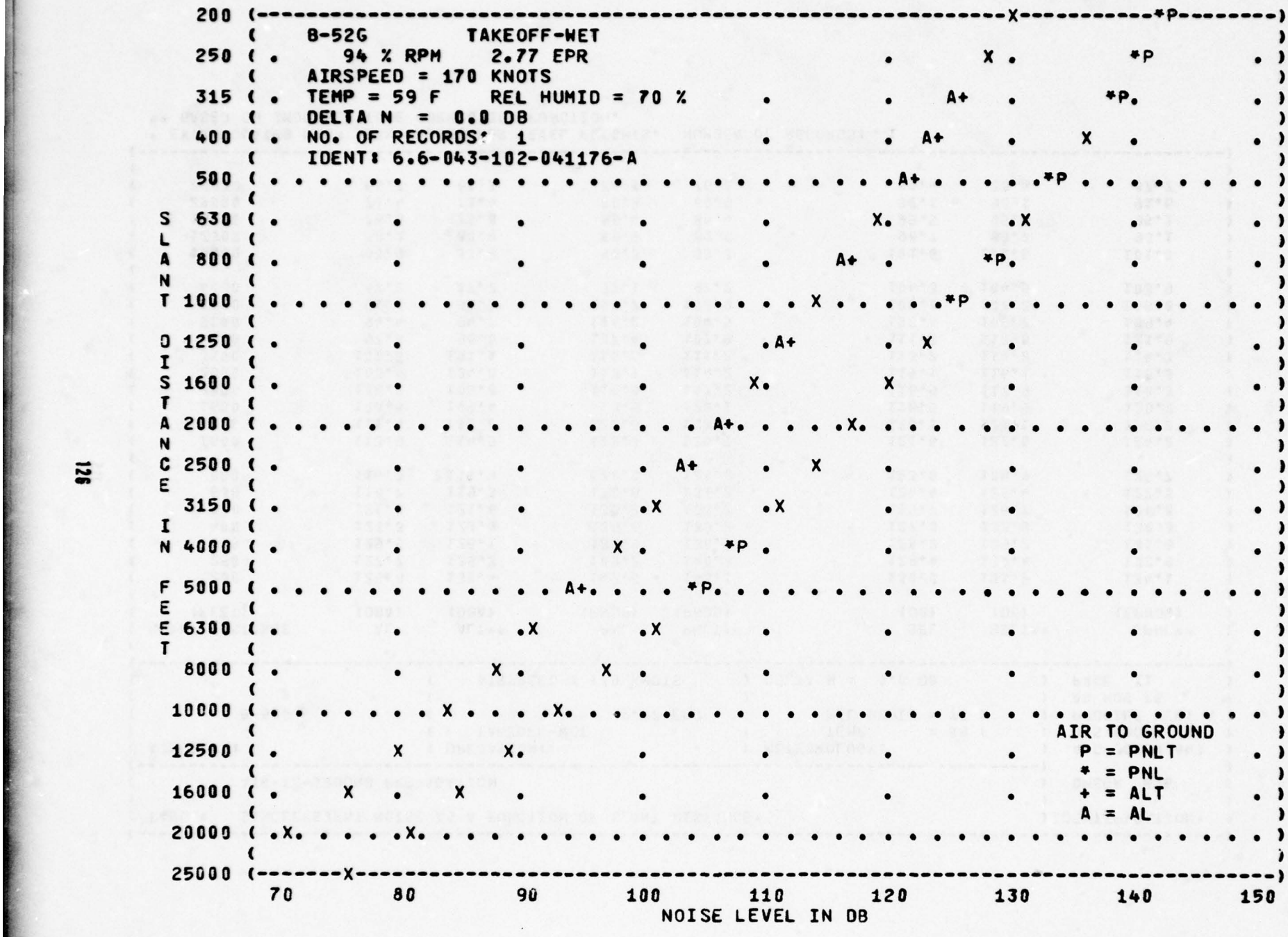
OPERATION:
TAKEOFF-WET
94 % RPM 2.77 EPR
AIRSPEED = 170 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 043
OPS CODE: 102
PROFILE VER: A
04 NOV 76
PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	129.8	130.4	142.5	143.1	130.5	131.5	134.1
250	127.7	128.3	140.2	140.8	129.4	130.4	132.9
315	125.5	126.1	137.9	138.5	128.2	129.2	131.6
400	123.3	123.9	135.6	136.2	127.0	128.0	130.3
500	121.0	121.6	133.2	133.7	125.7	126.7	128.8
630	118.7	119.3	130.6	131.2	124.4	125.4	127.3
800	116.3	116.9	128.0	128.6	123.0	124.0	125.7
1000	113.9	114.5	125.3	125.9	121.6	122.6	124.0
1250	111.4	112.0	122.5	123.1	120.1	121.1	122.2
1600	108.8	109.4	119.5	120.1	118.5	119.5	120.2
2000	106.2	106.8	116.6	117.2	116.9	117.9	118.3
2500	103.4	104.0	113.7	114.2	115.1	116.1	116.3
3150	100.5	101.1	110.6	111.2	113.2	114.2	114.3
4000	97.5	98.0	107.4	107.9	111.2	112.0	111.9
5000	94.4	94.7	104.2	104.5	109.1	109.7	109.4
6300	91.1	91.3	100.7	100.9	106.8	107.2	106.8
8000	87.6	87.7	97.1	97.2	104.3	104.5	103.9
10000	83.9	83.9	93.3	93.3	101.6	101.6	101.0
12500	80.0	80.0	89.5	89.5	98.7	98.7	98.1
16000	75.8	75.8	85.4	85.4	95.5	95.5	95.1
20000	71.4	71.4	80.9	80.9	92.1	92.1	91.6
25000	66.7	66.7	76.1	76.1	88.4	88.4	87.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-52G TAKEOFF-WET
94 % RPM 2.77 EPR
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-043-102-041176-A
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB

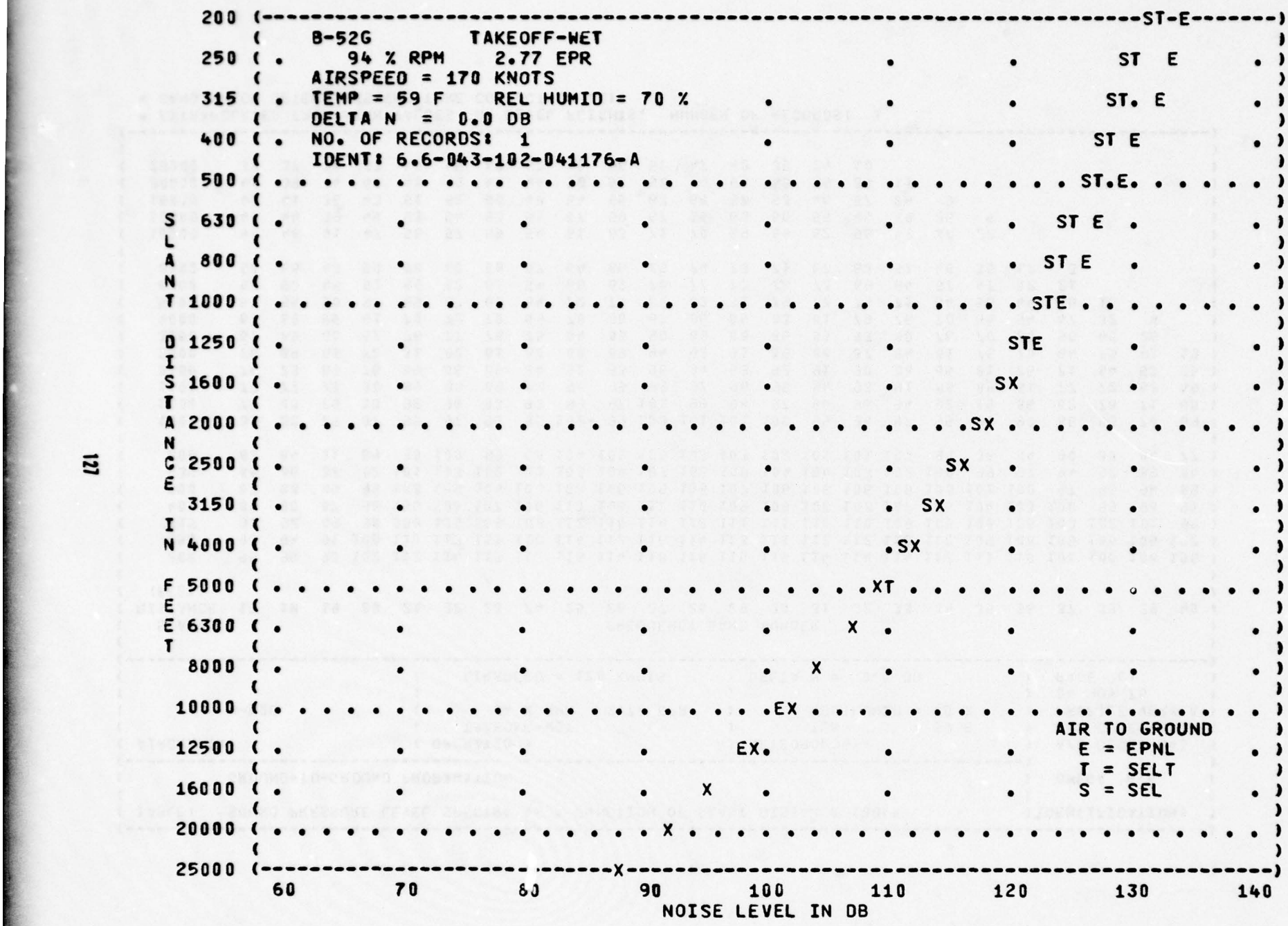

B-52G TAKEOFF-WET
94 % RPM 2.77 EPR
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-043-102-041176-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 043
OPS CODE: 102
PROFILE VER: A
04 NOV 76
PAGE L1

AIRCRAFT: B-52G

OPERATION:
TAKEOFF-WET
94 % RPM 2.77 EPR
AIRSPEED = 170 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %

DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	95	96	93	102	112	114	113	112	116	114	118	116	115	115	114	114	114	112	111	110	108	108	108	106
250	93	94	91	100	110	112	111	110	114	112	116	114	113	113	112	112	112	110	109	108	105	105	105	102
315	91	92	89	98	108	110	109	108	112	110	114	112	111	111	110	110	109	108	106	106	103	102	101	99
400	89	90	87	96	106	108	107	106	110	108	112	110	109	109	108	108	107	105	104	103	100	99	98	94
500	87	88	85	94	103	105	104	103	108	106	109	108	107	106	106	106	105	103	101	100	97	96	94	89
630	85	86	83	92	101	103	102	101	106	104	107	106	105	104	104	103	102	100	99	97	94	92	89	84
800	83	84	81	89	98	100	99	98	104	102	105	103	103	102	101	101	100	98	96	94	90	88	84	77
1000	81	82	79	87	95	97	96	95	102<	99	103	101	101	100	99	98	97	95	93	90	86	83	78	69
1250	79	80	76	83	92	94	93	92	99	97	101	99	98	97	96	96	94	92	89	86	82	78	71	60
1600	77	77	73	80	89	90	89	88	96	95	99	97	96	95	94	93	91	88	85	81	77	72	63	49
2000	74	73	69	76	85	86	85	84	92	93	96	94	93	92	91	90	88	85	81	76	71	64	53	35
2500	70	69	65	72	81	82	81	80	88	89	94	92	91	89	88	87	84	81	76	70	64	55	41	19
3150	67	65	60	67	76	77	76	75	84	85	90	89	88	86	85	83	80	76	70	63	56	45	26	
4000	62	60	55	61	70	72	70	69	78	80	87	86	85	83	81	79	76	70	64	54	47	32	9	
5000	57	55	50	57	65	67	65	64	72	75	82	82	81	79	77	74	71	64	56	44	35	16		
6300	52	50	45	52	61	62	61	59	66	69	78	77	77	76	73	69	64	57	47	32	21			
8000	50	48	43	50	58	60	58	57	64	66	75	74	73	71	67	63	57	48	35	17	3			
10000	48	46	41	47	56	57	55	54	61	63	71	70	69	66	62	56	49	37	22					
12500	45	44	39	45	53	54	53	51	57	59	67	65	63	60	55	48	39	25	5					
16000	43	41	36	43	51	52	50	48	54	55	63	60	57	53	46	37	26	9						
20000	41	39	34	40	48	49	46	44	50	51	58	54	50	45	36	25	11							
25000	38	37	31	37	45	45	43	40	46	46	52	47	42	35	24	10								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-52G

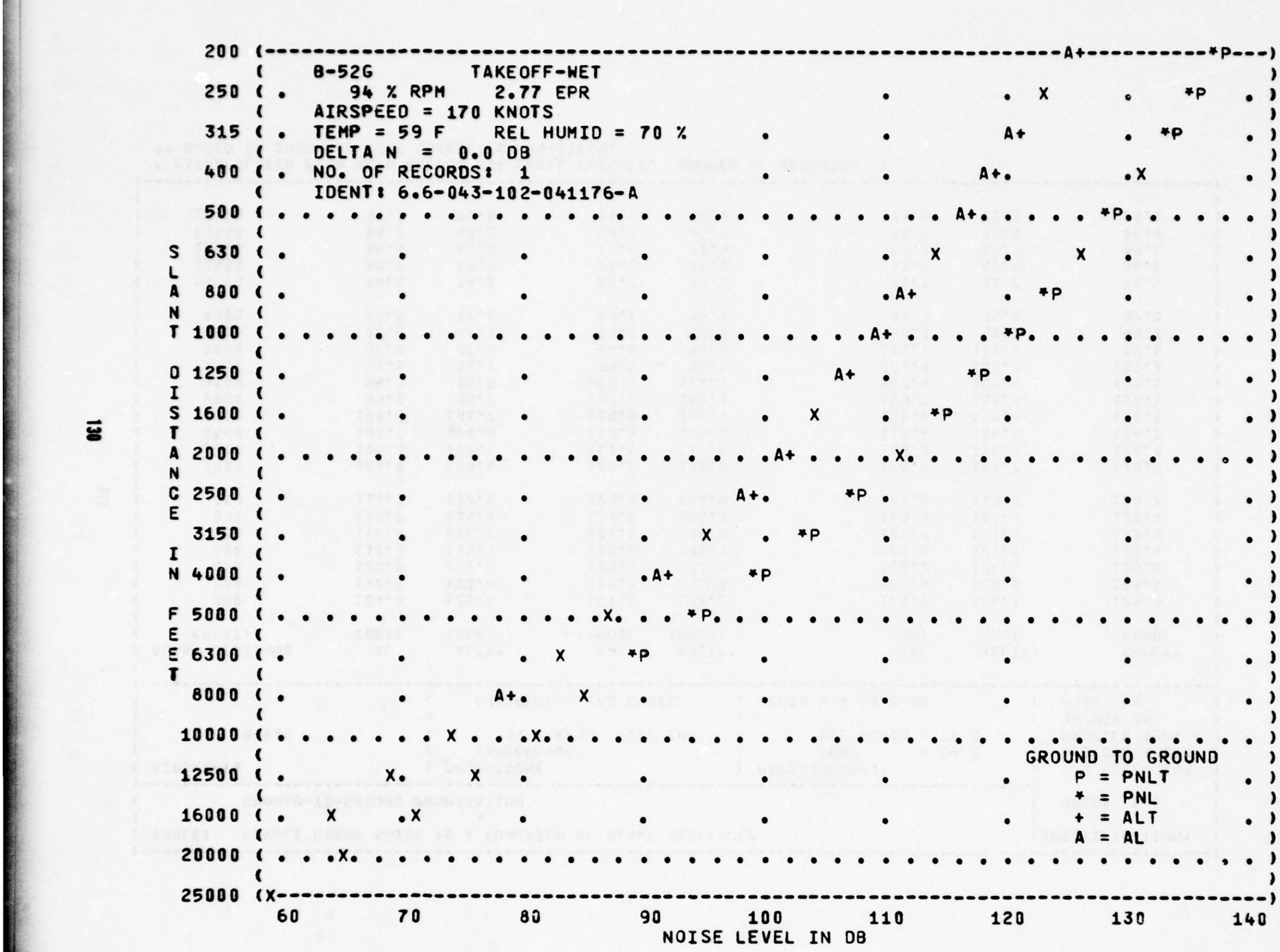
OPERATION:
TAKEOFF-WET
94 % RPM 2.77 EPR
AIRSPEED = 170 KNOTS

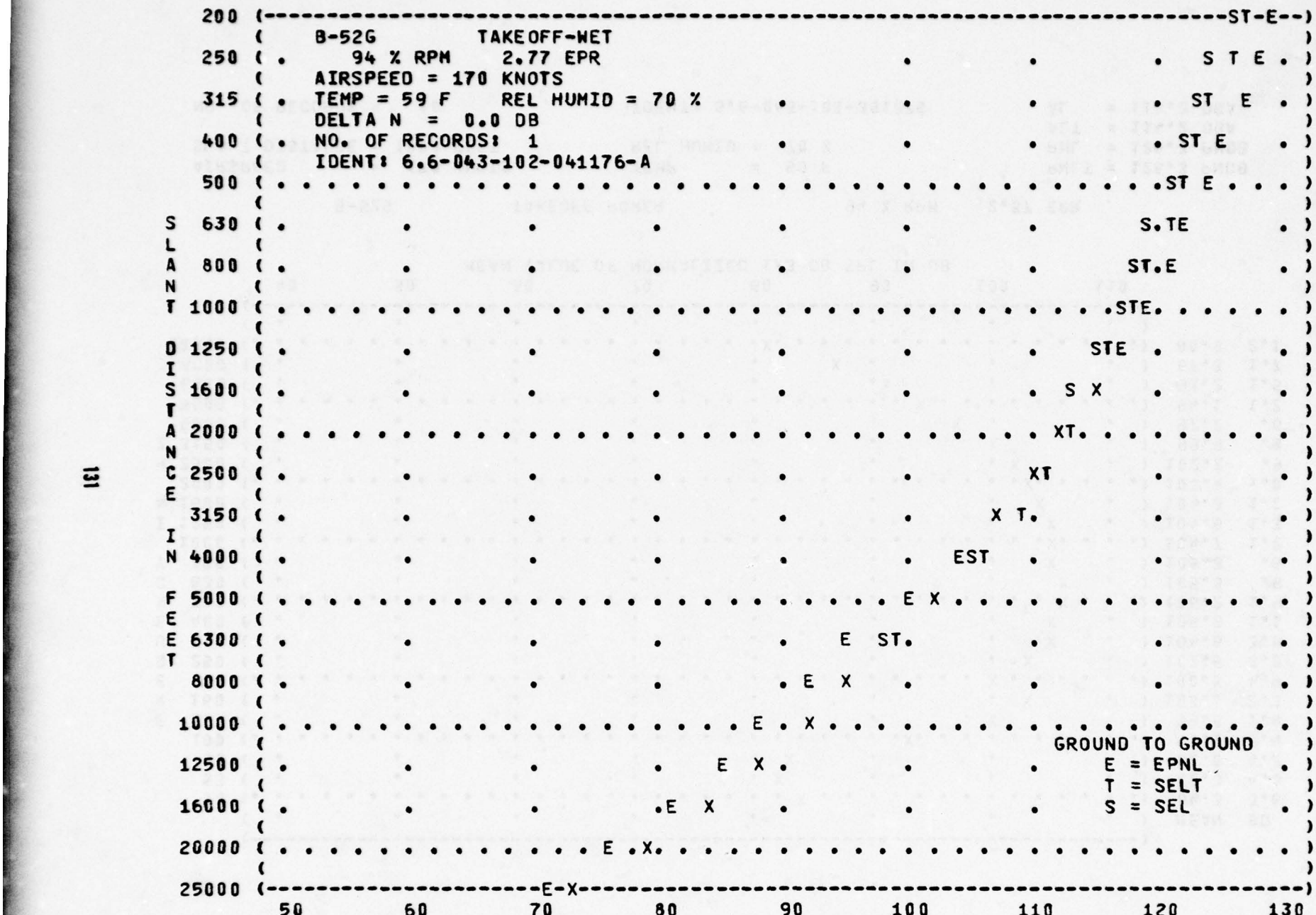
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

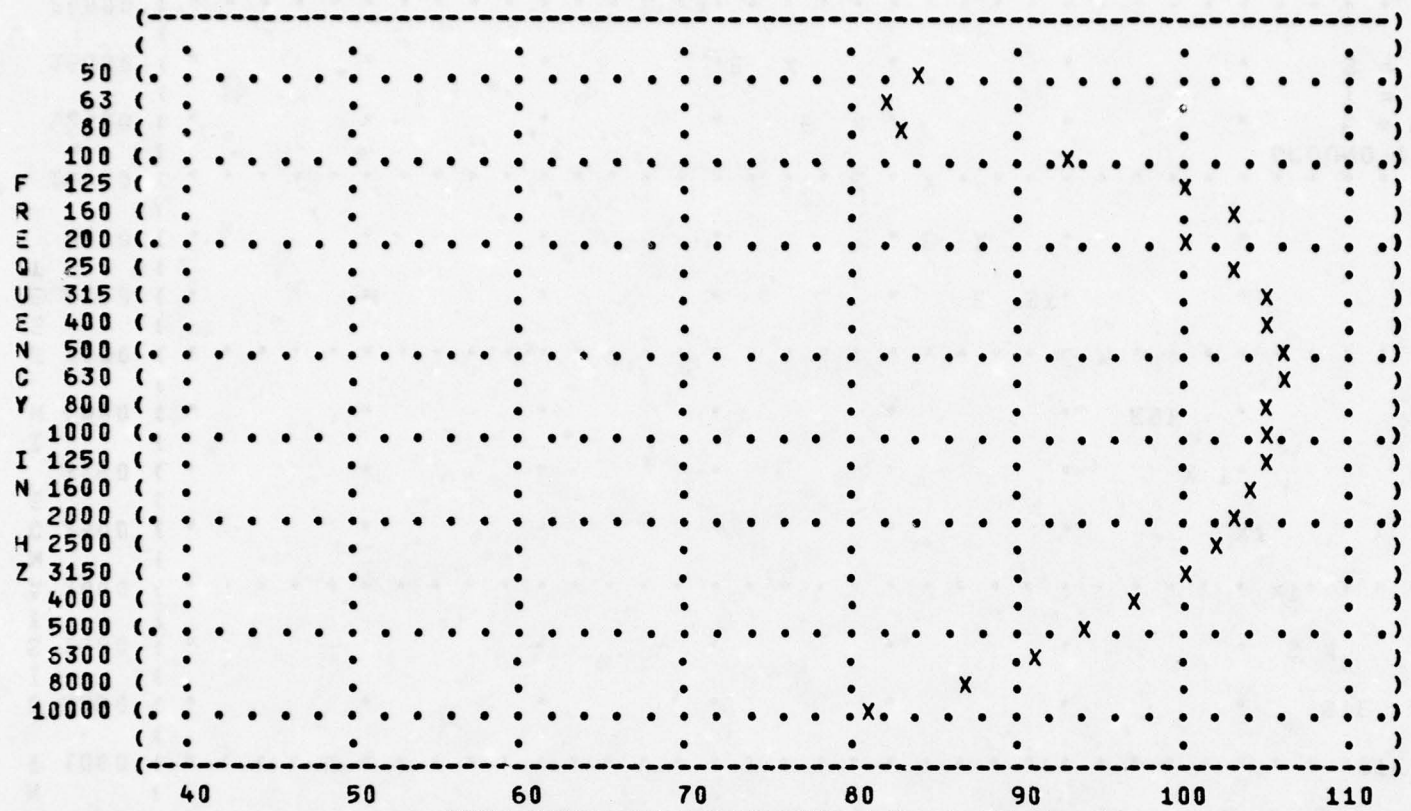
A/C CODE: 043
OPS CODE: 102
PROFILE VER: A
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SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	124.8	125.6	137.5	138.2	125.5	126.7	129.3
250	122.7	123.4	135.2	136.0	124.4	125.5	128.1
315	120.5	121.2	132.9	133.7	123.2	124.4	126.8
400	118.3	119.0	130.6	131.3	122.0	123.1	125.4
500	116.0	116.7	128.1	128.9	120.7	121.9	123.9
630	113.7	114.4	125.5	126.3	119.4	120.5	122.4
800	111.3	112.0	122.9	123.6	118.0	119.2	120.7
1000	108.8	109.6	120.1	120.8	116.5	117.7	118.9
1250	106.3	107.1	117.1	117.8	115.0	116.2	116.9
1600	103.7	104.4	113.9	114.6	113.4	114.5	114.7
2000	100.9	101.7	110.6	111.4	111.6	112.8	112.5
2500	98.0	98.7	107.2	108.0	109.7	110.8	110.1
3150	94.7	95.5	103.3	104.1	107.4	108.6	107.1
4000	91.1	91.7	98.9	99.5	104.8	105.7	103.5
5000	87.0	87.5	94.2	94.6	101.7	102.4	99.6
6300	82.6	82.9	89.2	89.5	98.3	98.7	95.3
8000	78.5	78.6	85.1	85.3	95.2	95.4	92.0
10000	74.1	74.1	80.7	80.7	91.7	91.7	88.4
12500	69.2	69.2	76.0	76.0	87.9	87.9	84.7
16000	64.0	64.0	70.9	70.9	83.7	83.7	80.6
20000	58.2	58.2	65.3	65.3	78.9	78.9	76.0
25000	51.8	51.8	58.9	58.9	73.5	73.5	70.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-52G TAKEOFF-WET
94 % RPM 2.77 EPR
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-043-102-041176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


B-52G TAKEOFF-WET
94 % RPM 2.77 EPR
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-043-102-041176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



B-52G TAKEOFF POWER 94 % RPM 2.37 EPR

AIRSPEED = 170 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 10

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-043-103-301275

PNLT = 126.3 PNDB
PNL = 126.3 PNDB
ALT = 114.2 DBA
AL = 114.2 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-52G

OPERATION:
TAKEOFF POWER
94 % RPM 2.37 EPR
AIRSPEED = 170 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 043
OPS CODE: 103
PROFILE VER: A
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PAGE H1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	98	96	97	107	114	117	115	117	119	120	121	121	120	120	120	120	120	119	118	118	116	116	117	117
250	96	94	95	105	112	115	113	115	117	118	119	119	118	118	118	118	118	117	116	115	113	113	114	114
315	94	92	93	103	110	113	111	113	115	116	117	116	116	116	116	116	116	115	114	113	111	110	110	110
400	92	90	91	101	108	111	109	111	113	114	115	114	114	114	114	114	113	113	111	110	108	107	107	106
500	90	88	89	99	106	109	107	109	111	111	113	112	112	111	112	111	111	110	109	107	105	104	103	101
630	88	86	87	97	104	107	105	107	109	109	110	110	110	109	109	109	109	108	106	104	102	100	98	95
800	86	84	85	95	102	105	103	105	107	107	108	108	108	107	107	107	106	105	103	101	98	96	93	89
1000	84	82	83	93	100	103	100	103	105	105	106	106	105	105	105	104	103	102	100	97	94	91	87	81
1250	82	80	81	91	98	101	98	100	102	103	104	104	103	102	102	102	101	99	96	93	90	86	80	72
1600	80	78	78	89	96	99	96	98	100	101	102	101	101	100	99	99	98	96	93	89	85	80	72	60
2000	78	76	76	87	94	97	94	96	98	99	99	99	98	97	97	96	94	92	88	83	79	72	62	47
2500	76	74	74	85	92	95	92	94	96	96	97	96	95	94	94	93	91	88	83	77	72	63	50	30
3150	74	72	72	83	89	93	90	92	94	94	95	94	93	91	90	89	87	83	78	70	64	53	36	10
4000	72	70	70	81	87	90	88	89	91	91	92	91	90	88	87	85	82	78	71	62	54	40	18	
5000	70	68	68	78	85	88	85	87	89	89	89	88	86	85	83	80	77	71	63	51	43	24		
6300	68	66	66	76	83	86	83	85	86	86	86	85	83	81	78	75	71	64	54	39	29	5		
8000	66	64	64	74	81	83	80	82	83	83	83	81	79	76	73	69	63	55	43	24	11			
10000	64	61	62	72	78	81	78	79	80	80	79	77	74	71	67	62	55	45	29	6				
12500	61	59	59	69	76	78	75	76	77	76	75	73	69	65	60	54	45	32	12					
16000	59	57	57	67	73	76	72	73	74	72	71	68	63	58	52	43	32	16						
20000	57	54	54	64	70	73	69	69	70	68	66	62	56	50	42	31	17							
25000	55	52	52	62	67	69	65	66	65	63	60	55	48	40	30	16								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 10
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
B-52G

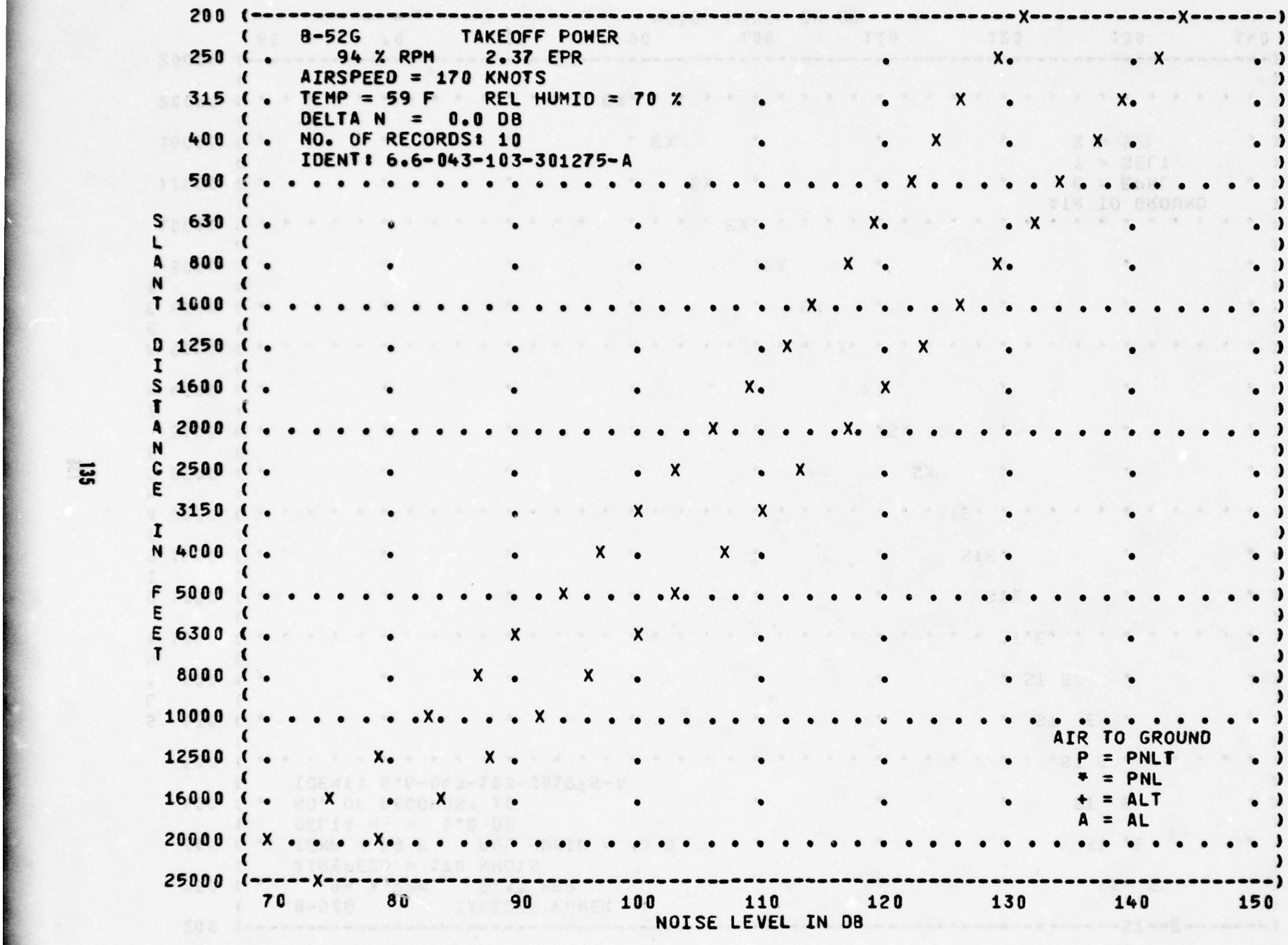
OPERATION:
TAKEOFF POWER
94 % RPM 2.37 EPR
AIRSPEED = 170 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 043
OPS CODE: 103
PROFILE VER: A
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SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	130.7	130.7	143.9	143.9	129.9	130.7	133.7
250	128.5	128.5	141.6	141.6	128.6	129.5	132.4
315	126.3	126.3	139.3	139.3	127.4	128.2	131.1
400	124.0	124.0	136.9	136.9	126.1	126.9	129.7
500	121.6	121.6	134.4	134.4	124.7	125.6	128.2
630	119.2	119.2	131.8	131.8	123.3	124.2	126.7
800	116.8	116.8	129.1	129.1	121.9	122.7	125.0
1000	114.2	114.2	126.3	126.3	120.4	121.2	123.1
1250	111.6	111.6	123.3	123.3	118.8	119.6	121.1
1600	109.0	109.0	120.2	120.2	117.1	117.9	119.0
2000	106.2	106.2	116.9	116.9	115.3	116.1	116.7
2500	103.3	103.3	113.5	113.5	113.4	114.3	114.3
3150	100.3	100.3	110.0	110.0	111.4	112.2	111.8
4000	97.2	97.2	106.6	106.6	109.3	109.9	109.3
5000	93.9	93.9	103.2	103.2	107.0	107.5	106.7
6300	90.4	90.4	99.7	99.7	104.5	104.9	104.0
8000	86.8	86.8	96.0	96.0	101.9	102.1	101.1
10000	83.0	83.0	92.1	92.1	99.1	99.1	98.1
12500	78.9	78.9	88.1	88.1	96.0	96.0	95.1
16000	74.6	74.6	83.7	83.7	92.8	92.8	91.7
20000	70.1	70.1	79.2	79.2	89.2	89.2	88.2
25000	65.3	65.3	74.2	74.2	85.4	85.4	84.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 10
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-52G TAKEOFF POWER
94 % RPM 2.37 EPR
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 10
IDENT: 6.6-043-103-301275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB

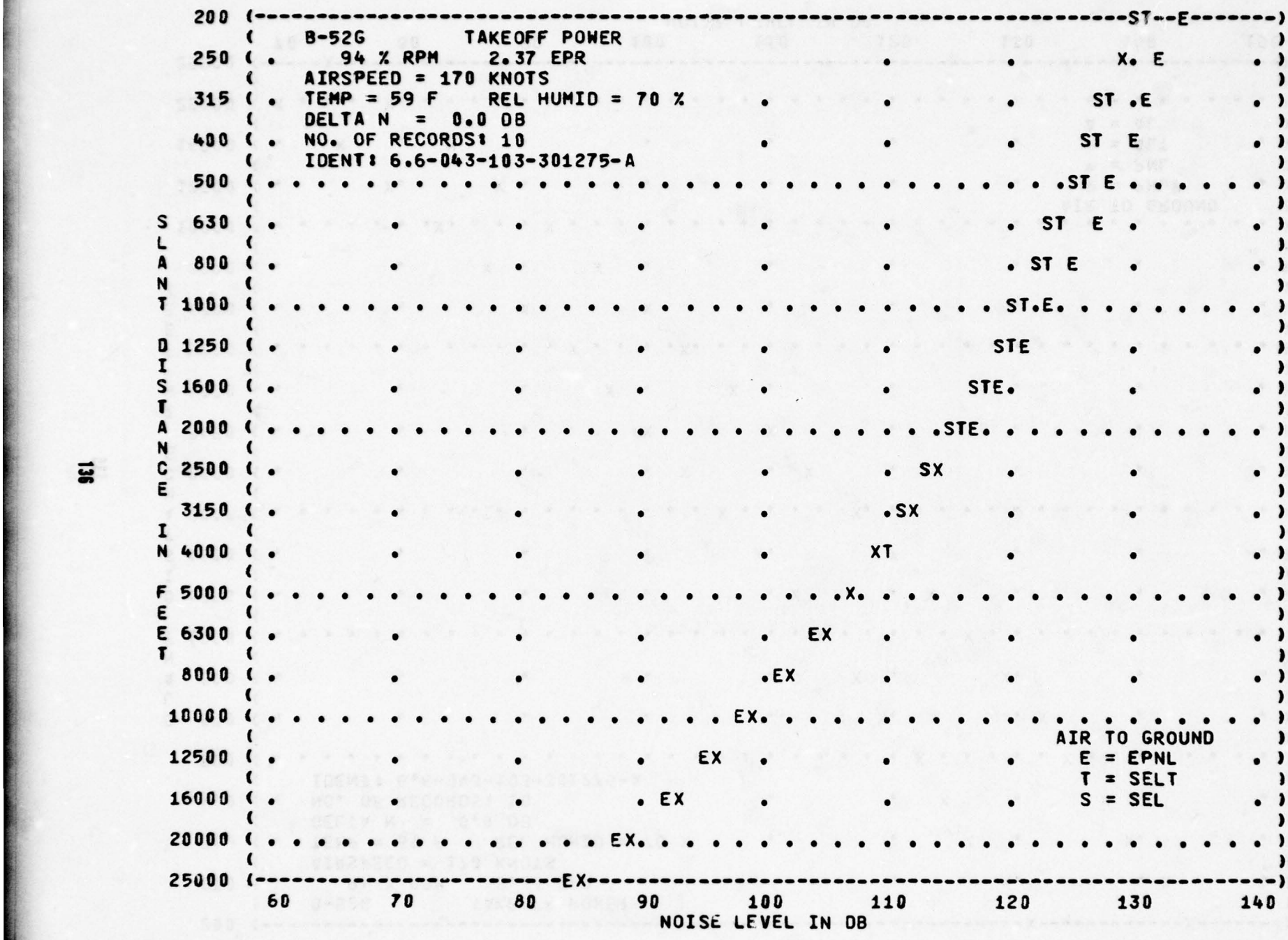

B-52G TAKEOFF POWER
94 % RPM 2.37 EPR
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 10
IDENT: 6.6-043-103-301275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 043
OPS CODE: 103
PROFILE VER: A
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AIRCRAFT: B-52G

OPERATION:
TAKEOFF POWER
94 % RPM 2.37 EPR
AIRSPEED = 170 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	93	91	92	102	109	112	110	112	114	115	116	116	115	115	115	115	115	114	113	113	111	111	112	112
250	91	89	90	100	107	110	108	110	112	113	114	114	113	113	113	113	113	112	111	110	108	108	109	109
315	89	87	88	98	105	108	106	108	110	111	112	111	111	111	111	111	111	110	109	108	106	105	105	105
400	87	85	86	96	103	106	103	106	108	109	110	109	109	109	109	109	108	108	106	105	103	102	102	101
500	85	83	84	94	101	104	101	104	106	106	108	107	107	106	107	106	106	105	104	102	100	99	98	96
630	83	81	82	92	98	101	98	101	104	104	105	105	105	104	104	104	104	103	101	99	97	95	93	90
800	81	79	80	90	96	98	96	98	102	102	103	103	103	102	102	102	101	100	98	96	93	91	88	84
1000	79	77	78	87	93	95	93	95	99	100	101	101	100	100	100	99	98	97	95	92	89	86	82	76
1250	77	75	74	84	89	92	90	92	96	98	99	99	98	97	97	97	96	94	91	88	85	81	75	67
1600	75	72	71	80	86	89	86	89	93	96	97	96	96	95	94	94	93	91	88	84	80	75	67	55
2000	72	68	67	76	82	85	82	85	90	94	94	94	93	92	92	91	89	87	83	78	74	67	57	42
2500	69	65	63	72	78	81	78	80	86	90	92	91	90	89	89	88	86	83	78	72	67	58	45	25
3150	65	60	59	67	73	76	73	75	81	86	89	89	88	86	85	84	82	78	73	65	59	48	31	5
4000	60	55	53	62	67	70	67	69	76	81	85	85	85	83	82	80	77	73	66	57	49	35	13	
5000	55	50	49	57	63	65	62	65	70	75	81	81	81	80	78	75	72	66	58	46	38	19		
6300	50	46	44	52	58	60	57	60	64	70	76	77	77	76	73	70	66	59	49	34	24			
8000	48	44	42	50	56	58	55	57	61	67	73	73	73	71	68	64	58	50	38	19	6			
10000	46	41	40	48	53	55	52	54	58	64	69	69	68	66	62	57	50	40	24	1				
12500	43	39	37	45	51	53	50	51	55	60	65	65	63	60	55	49	40	27	7					
16000	41	37	35	43	48	50	47	48	52	56	61	60	57	53	47	38	27	11						
20000	39	34	32	40	45	47	43	44	48	52	56	54	50	45	37	26	12							
25000	37	32	30	38	42	44	40	41	43	47	50	47	42	35	25	11								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 10
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-52G

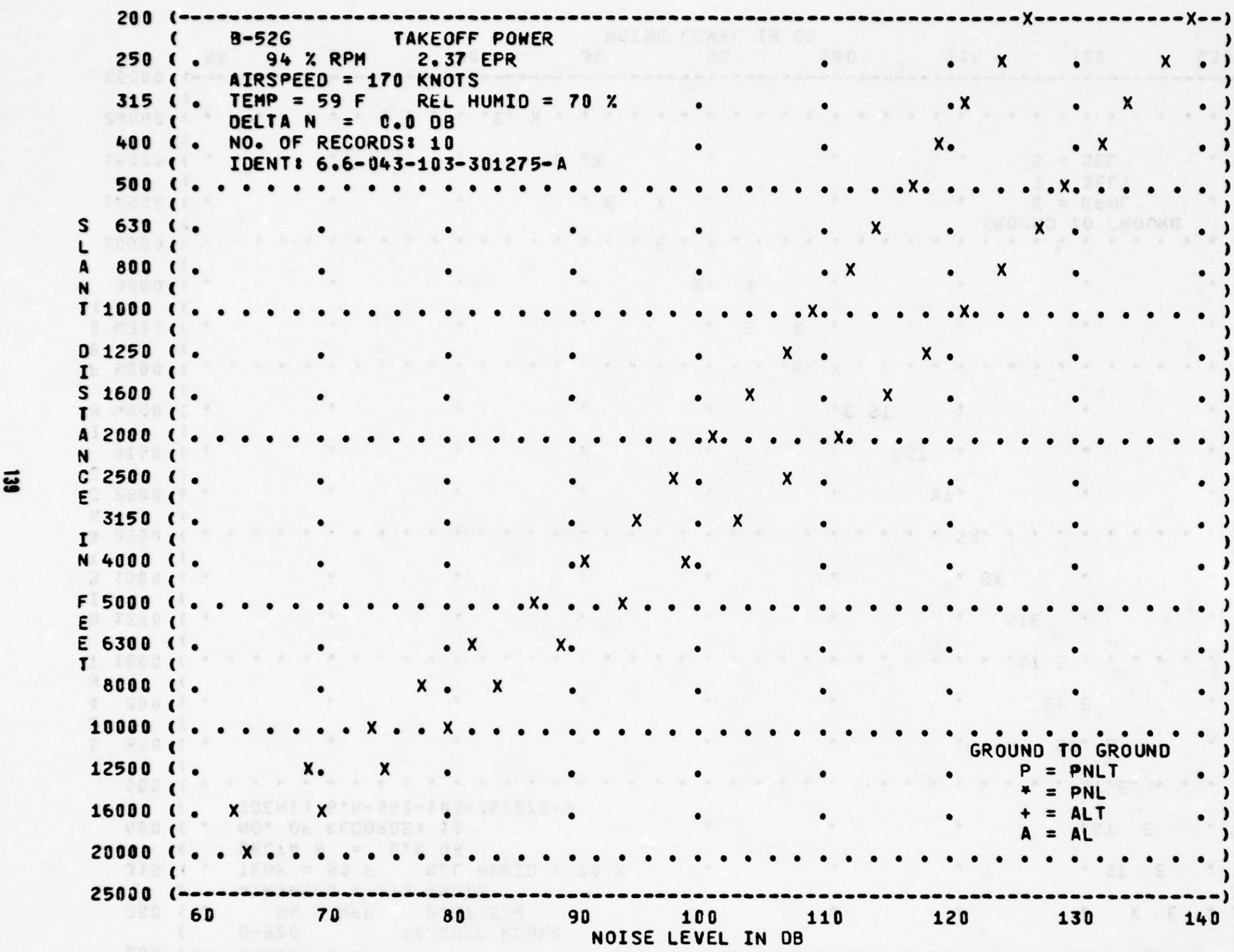
OPERATION:
TAKEOFF POWER
94 % RPM 2.37 EPR
AIRSPEED = 170 KNOTS

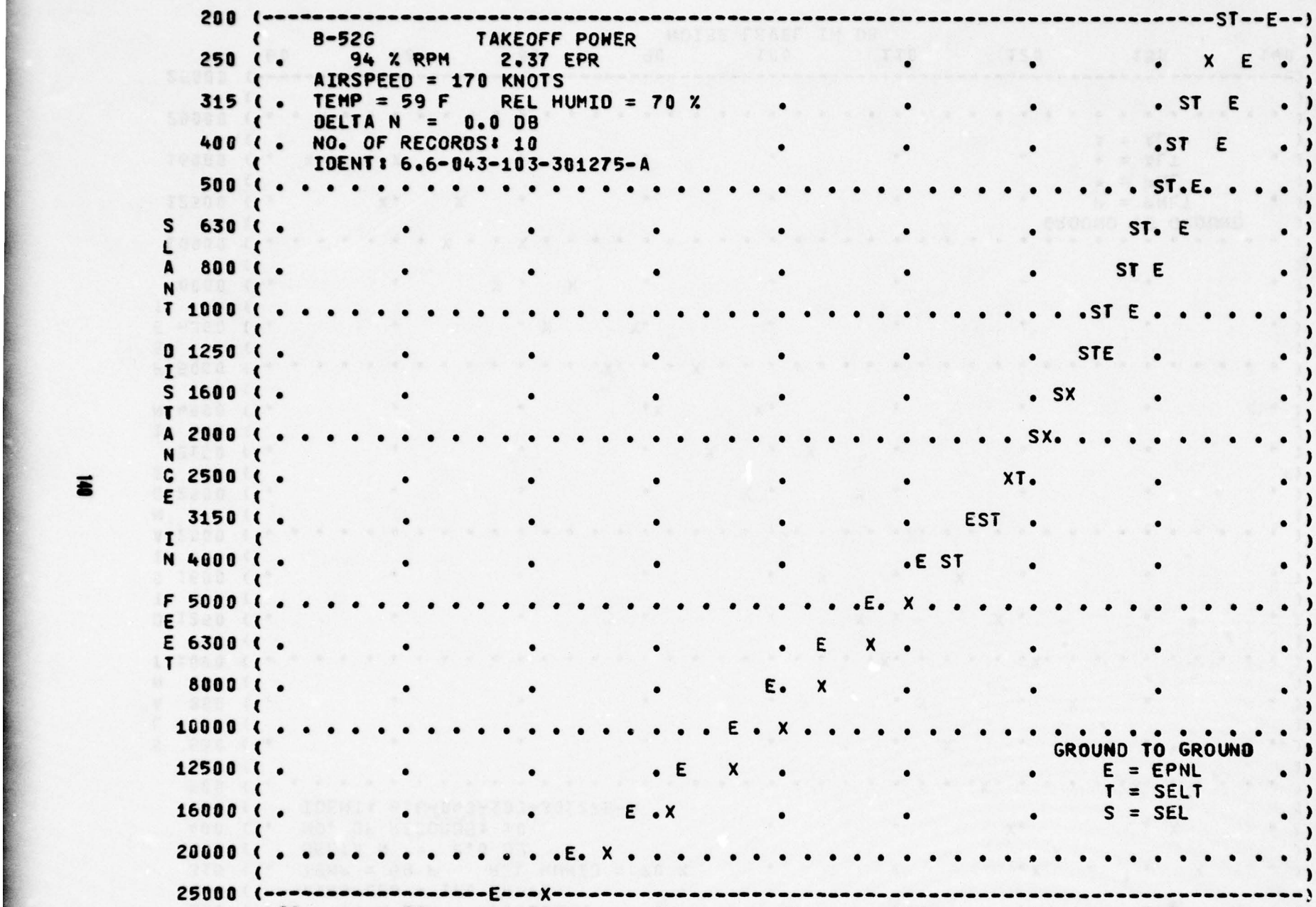
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

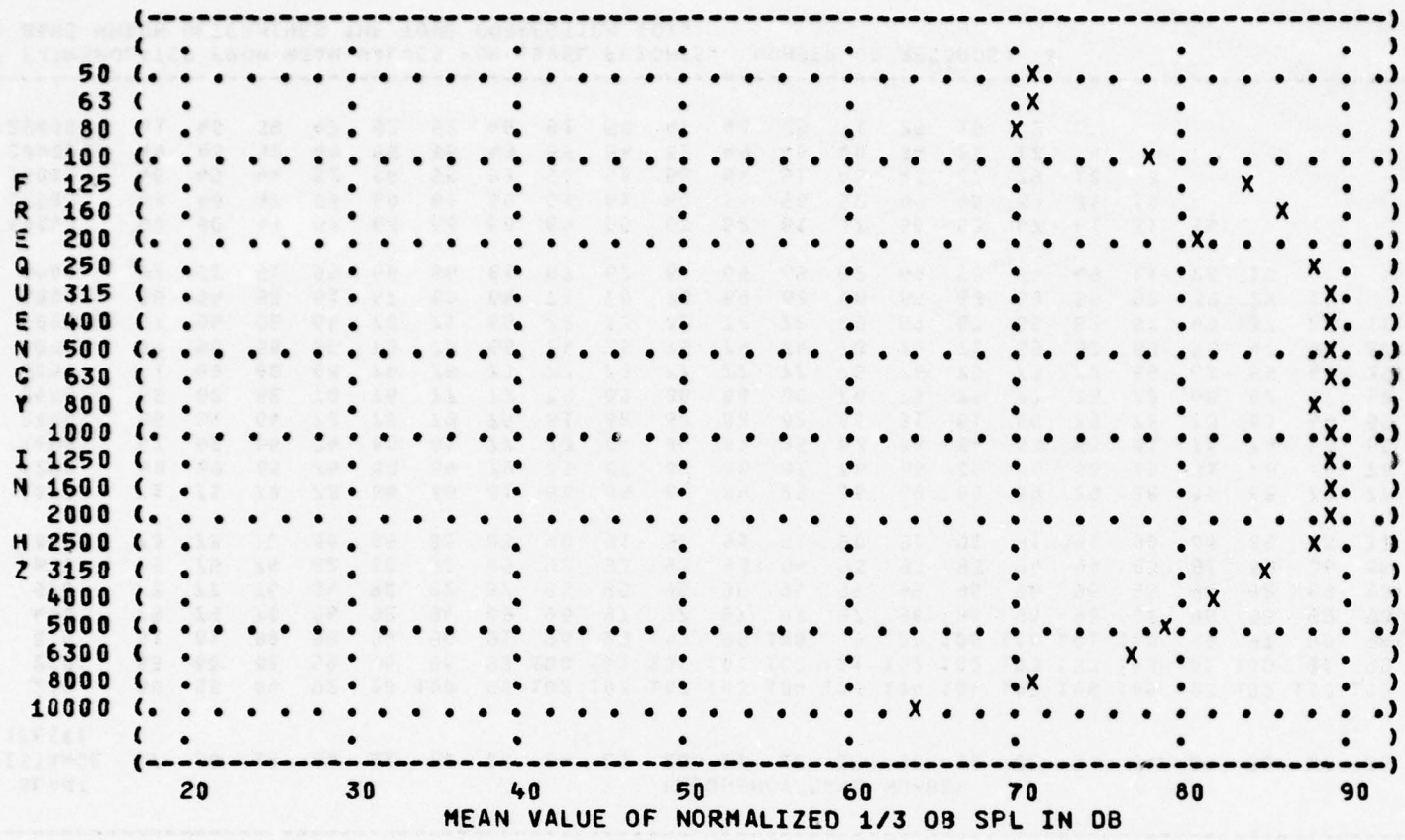
A/C CODE: 043
OPS CODE: 103
PROFILE VER: A
30 DEC 75
PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	125.7	125.7	138.9	138.9	124.9	125.7	128.7
250	123.5	123.5	136.6	136.6	123.6	124.5	127.4
315	121.3	121.3	134.3	134.3	122.4	123.2	126.1
400	119.0	119.0	131.9	131.9	121.1	121.9	124.7
500	116.6	116.6	129.4	129.4	119.7	120.6	123.2
630	114.2	114.2	126.7	126.7	118.3	119.1	121.6
800	111.7	111.7	124.0	124.0	116.8	117.7	119.8
1000	109.2	109.2	121.1	121.1	115.3	116.2	117.9
1250	106.6	106.6	117.9	117.9	113.7	114.5	115.8
1600	103.9	103.9	114.6	114.6	112.0	112.8	113.4
2000	101.0	101.0	111.1	111.1	110.1	111.0	110.9
2500	98.0	98.0	107.3	107.3	108.1	108.9	108.1
3150	94.7	94.7	103.2	103.2	105.8	106.6	105.0
4000	91.0	91.0	98.7	98.7	103.1	103.8	101.3
5000	86.9	86.9	93.8	93.8	100.0	100.5	97.3
6300	82.4	82.4	88.7	88.7	96.5	96.9	93.1
8000	78.2	78.2	84.3	84.3	93.3	93.5	89.5
10000	73.6	73.6	79.7	79.7	89.7	89.7	85.7
12500	68.6	68.6	74.9	74.9	85.7	85.7	81.9
16000	63.2	63.2	69.7	69.7	81.3	81.3	77.7
20000	57.3	57.3	63.9	63.9	76.4	76.4	72.9
25000	50.7	50.7	57.4	57.4	70.8	70.8	67.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 10
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-52G TAKEOFF POWER
94 % RPM 2.37 EPR
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 10
IDENT: 6.6-043-103-301275-A
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB


B-52G TAKEOFF POWER
94 % RPM 2.37 EPR
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 10
IDENT: 6.6-043-103-301275-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB



B-52G CRUISE POWER 83.5 % RPM 1.48 EPR

AIRSPEED = 250 KNOTS
SLANT DISTANCE = 1000 FEET
NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %
IDENT: 6.6-043-104-301275

PNLT = 110.9 PNDB
PNL = 110.9 PNDB
ALT = 98.4 DBA
AL = 98.4 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-52G

OPERATION:
CRUISE POWER
83.5 % RPM 1.48 EPR
AIRSPEED = 250 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 043
OPS CODE: 104
PROFILE VER: A
30 DEC 75
PAGE H2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	85	85	84	92	98	100	95	102	103	103	103	104	103	104	104	105	105	105	103	102	100	102	100	100
250	83	83	82	90	96	98	93	100	101	101	101	102	101	102	102	103	103	103	101	100	98	99	97	96
315	81	81	80	88	94	96	91	98	99	99	99	100	99	100	100	100	101	100	99	97	95	96	94	92
400	79	79	78	86	92	94	89	96	97	97	97	98	97	98	98	98	98	98	96	95	92	93	90	88
500	77	77	76	84	90	92	87	94	95	95	95	96	95	95	96	96	96	96	94	92	89	90	86	83
630	75	75	74	82	88	90	85	92	93	93	93	94	93	93	93	94	94	93	91	89	86	86	82	78
800	73	73	72	80	86	88	83	90	91	91	91	91	90	91	91	91	91	90	88	86	83	82	77	71
1000	71	71	70	78	84	86	81	88	89	89	89	89	88	89	89	89	89	88	85	82	79	77	71	64
1250	69	69	68	76	82	84	79	85	87	87	86	87	86	86	86	86	86	85	81	78	74	72	64	54
1600	67	67	66	74	80	81	77	83	84	84	84	85	83	84	84	83	83	81	78	74	69	66	56	43
2000	65	64	64	72	78	79	75	81	82	82	82	82	81	81	81	80	79	78	73	68	64	59	46	30
2500	63	62	62	70	76	77	73	79	80	80	80	80	78	78	78	77	76	73	68	62	57	50	34	14
3150	61	60	60	68	74	75	70	77	78	77	77	77	76	76	75	73	72	69	63	55	49	39	20	
4000	59	58	58	66	72	73	68	74	75	75	74	74	73	72	71	69	67	63	56	47	39	27	3	
5000	57	56	56	64	70	71	66	72	73	72	72	72	69	69	67	65	62	57	49	37	28	11		
6300	55	54	53	61	67	68	64	70	70	70	69	68	66	65	63	60	56	50	39	25	14			
8000	52	52	51	59	65	66	61	67	67	67	65	65	62	60	58	54	49	41	28	10				
10000	50	50	49	57	63	63	58	64	65	63	62	61	57	55	52	47	41	31	15					
12500	48	48	47	55	60	61	56	61	61	60	58	56	52	49	45	39	31	18						
16000	46	45	44	52	58	58	53	58	58	56	54	51	46	43	37	29	18	3						
20000	44	43	42	49	55	55	49	55	54	52	49	46	40	34	27	17	4							
25000	41	40	39	47	52	52	46	51	50	47	43	39	31	25	15	2								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-52G

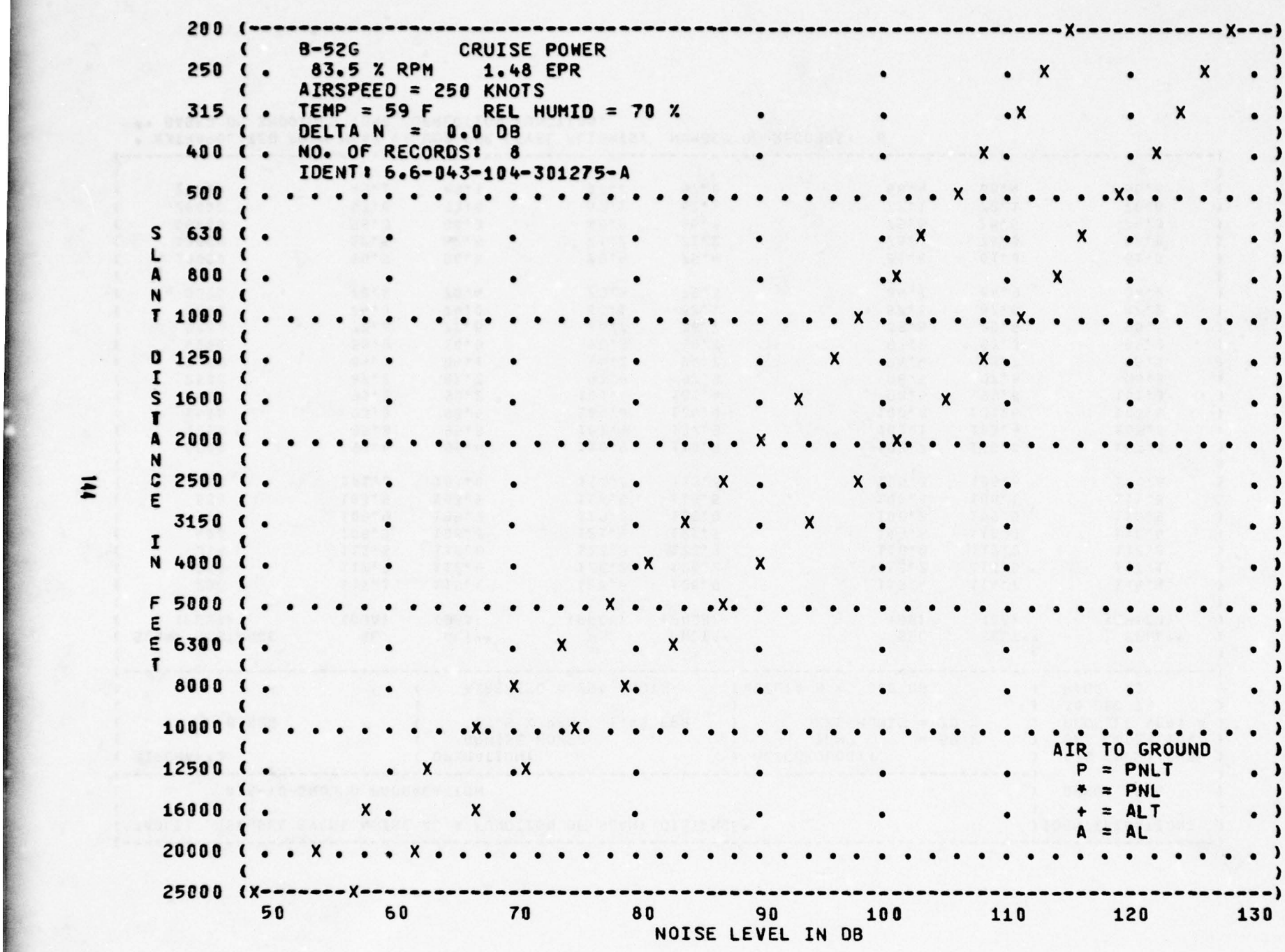
OPERATION:
CRUISE POWER
83.5 % RPM 1.48 EPR
AIRSPEED = 250 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 043
OPS CODE: 104
PROFILE VER: A
30 DEC 75
PAGE I2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	115.1	115.1	128.5	128.5	113.4	114.7	118.4
250	112.9	112.9	126.2	126.2	112.2	113.5	117.1
315	110.6	110.6	123.9	123.9	110.9	112.2	115.8
400	108.3	108.3	121.5	121.5	109.6	110.9	114.4
500	105.9	105.9	119.0	119.0	108.2	109.5	112.9
630	103.5	103.5	116.5	116.5	106.8	108.1	111.3
800	101.0	101.0	113.8	113.8	105.3	106.6	109.6
1000	98.4	98.4	110.9	110.9	103.7	105.0	107.8
1250	95.8	95.8	107.9	107.9	102.1	103.4	105.8
1600	93.0	93.0	104.8	104.8	100.3	101.6	103.6
2000	90.2	90.2	101.4	101.4	98.5	99.8	101.3
2500	87.2	87.2	97.9	97.9	96.5	97.8	98.8
3150	84.1	84.1	94.2	94.2	94.4	95.7	96.1
4000	80.9	80.9	90.3	90.3	92.2	93.3	92.9
5000	77.6	77.6	86.7	86.7	89.8	90.6	90.1
6300	74.0	74.0	83.1	83.1	87.3	87.9	87.2
8000	70.4	70.4	79.3	79.3	84.7	84.9	84.2
10000	66.5	66.5	75.4	75.4	81.8	81.8	81.0
12500	62.5	62.5	71.2	71.2	78.8	78.8	77.8
16000	58.3	58.3	66.8	66.8	75.6	75.6	74.3
20000	53.8	53.8	62.1	62.1	72.1	72.1	70.6
25000	49.1	49.1	57.0	57.0	68.4	68.4	66.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-52G CRUISE POWER
83.5 % RPM 1.48 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-043-104-301275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

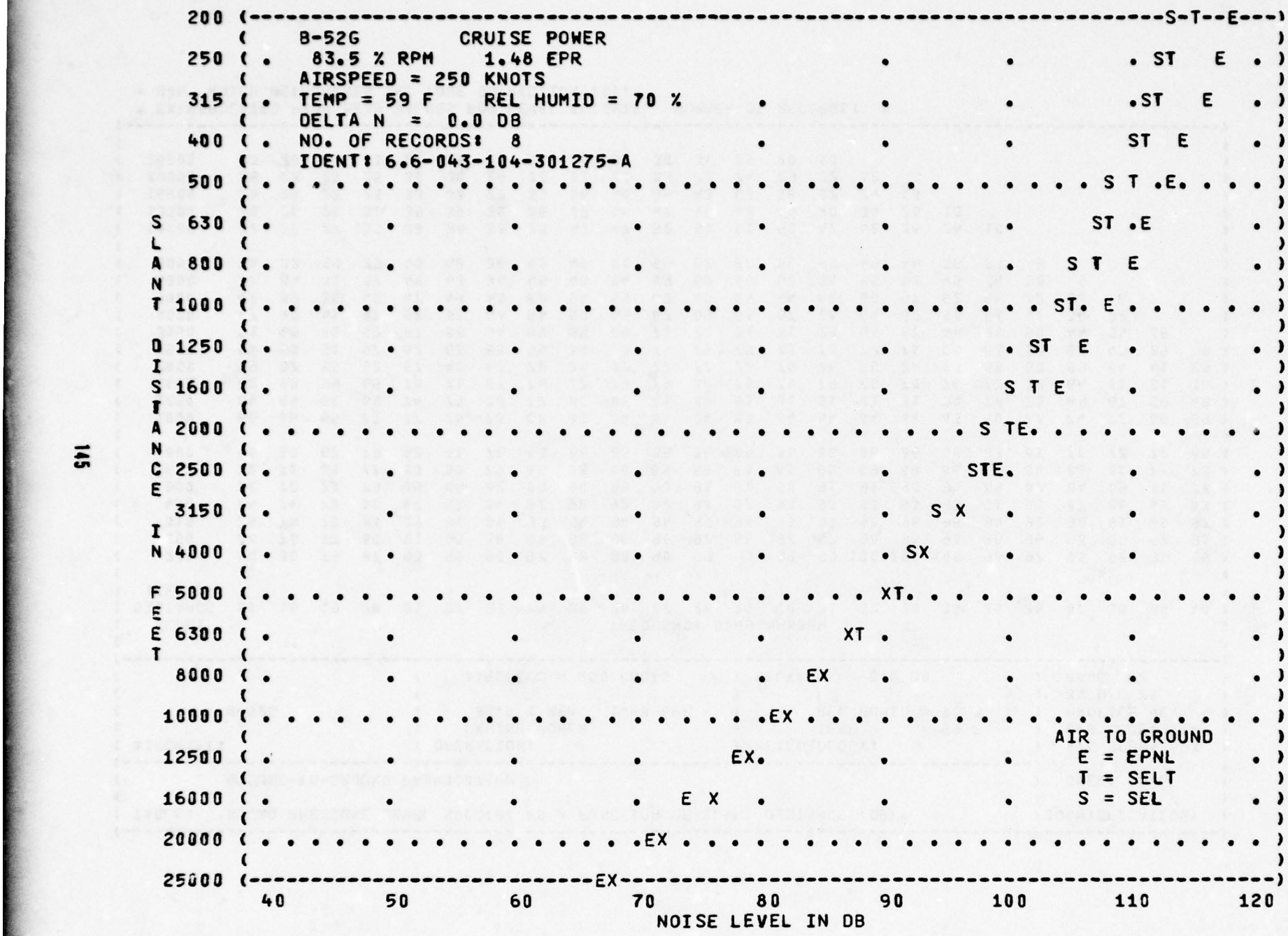

B-52G CRUISE POWER
83.5 % RPM 1.48 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-043-104-301275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-52G

OPERATION:
CRUISE POWER
83.5 % RPM 1.48 EPR
AIRSPEED = 250 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 043
OPS CODE: 104
PROFILE VER: A
30 DEC 75
PAGE L2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	80	80	79	87	93	95	90	97	98	98	98	99	98	99	99	100	100	100	98	97	95	97	95	95
250	78	78	77	85	91	93	88	95	96	96	96	97	96	97	97	98	98	98	96	95	93	94	92	91
315	76	76	75	83	89	91	86	93	94	94	94	95	94	95	95	95	96	95	94	92	90	91	89	87
400	74	74	73	81	87	89	84	91	92	92	92	93	92	93	93	93	93	93	91	90	87	88	85	83
500	72	72	71	79	85	86	82	89	90	90	90	91	90	90	91	91	91	91	89	87	84	85	81	78
630	70	70	69	77	83	83	79	86	88	88	88	89	88	88	88	89	89	88	86	84	81	81	77	73
800	68	68	67	75	80	81	76	83	86	86	86	86	85	86	86	86	86	85	83	81	78	77	72	66
1000	66	66	65	72	77	78	73	80	83	84	84	84	83	84	84	84	84	83	80	77	74	72	66	59
1250	64	64	62	69	74	75	70	77	80	82	81	82	81	81	81	81	81	80	76	73	69	67	59	49
1600	62	60	59	65	70	71	67	74	77	79	79	80	78	79	79	78	78	76	73	69	64	61	51	38
2000	59	57	55	62	67	67	63	70	74	77	77	77	76	76	76	75	74	73	68	63	59	54	41	25
2500	55	53	51	57	62	63	58	65	70	73	74	75	73	73	73	72	71	68	63	57	52	45	29	9
3150	51	48	46	52	57	58	54	60	65	69	71	72	71	71	70	68	67	64	58	50	44	34	15	
4000	47	43	41	47	52	52	48	54	60	65	67	69	68	67	66	64	62	58	51	42	34	22		
5000	42	39	36	42	47	48	43	50	54	59	63	65	64	64	62	60	57	52	44	32	23	6		
6300	37	34	31	37	42	43	38	45	48	54	59	60	60	60	58	55	51	45	34	20	9			
8000	34	32	29	35	40	40	36	42	45	51	55	57	56	55	53	49	44	36	23	5				
10000	32	30	27	33	38	38	33	39	43	47	52	53	51	50	47	42	36	26	10					
12500	30	28	25	31	35	35	30	36	39	44	48	48	46	44	40	34	26	13						
16000	28	25	22	28	33	33	27	33	36	40	44	43	40	38	32	24	13							
20000	26	23	20	25	30	30	24	30	32	36	39	38	34	29	22	12								
25000	23	20	17	23	27	26	20	26	28	31	33	31	25	20	10									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-52G

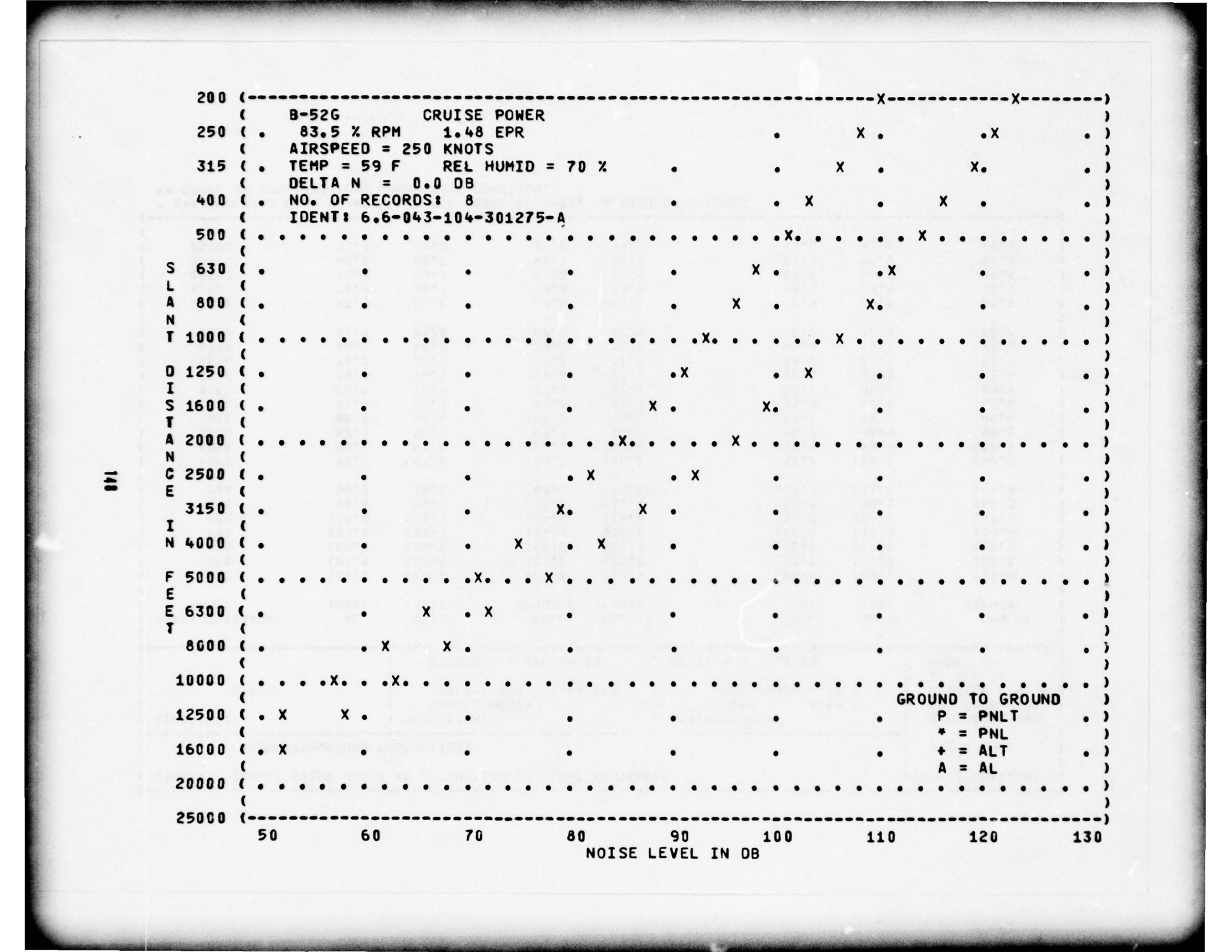
OPERATION:
CRUISE POWER
83.5 % RPM 1.48 EPR
AIRSPEED = 250 KNOTS

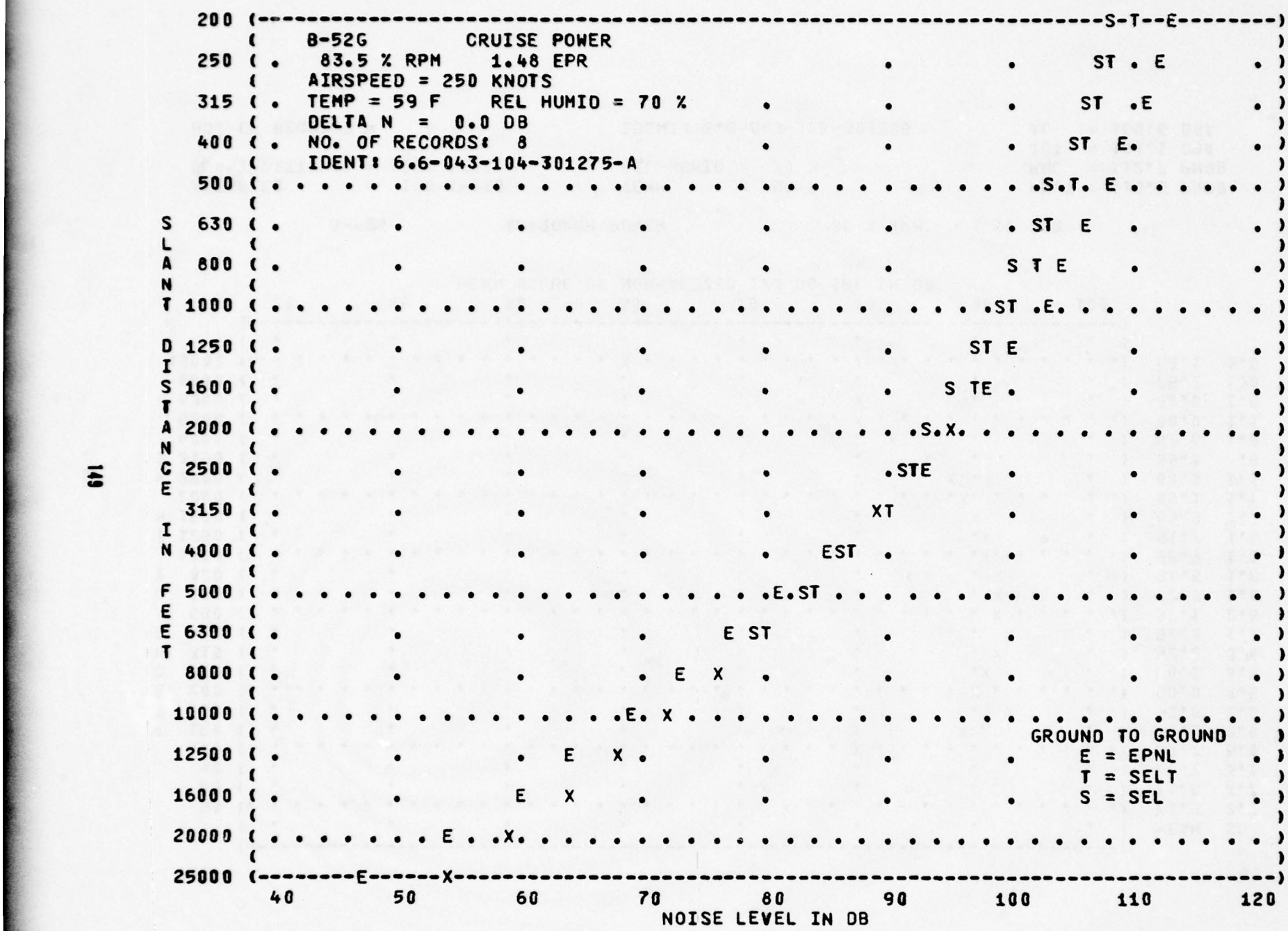
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

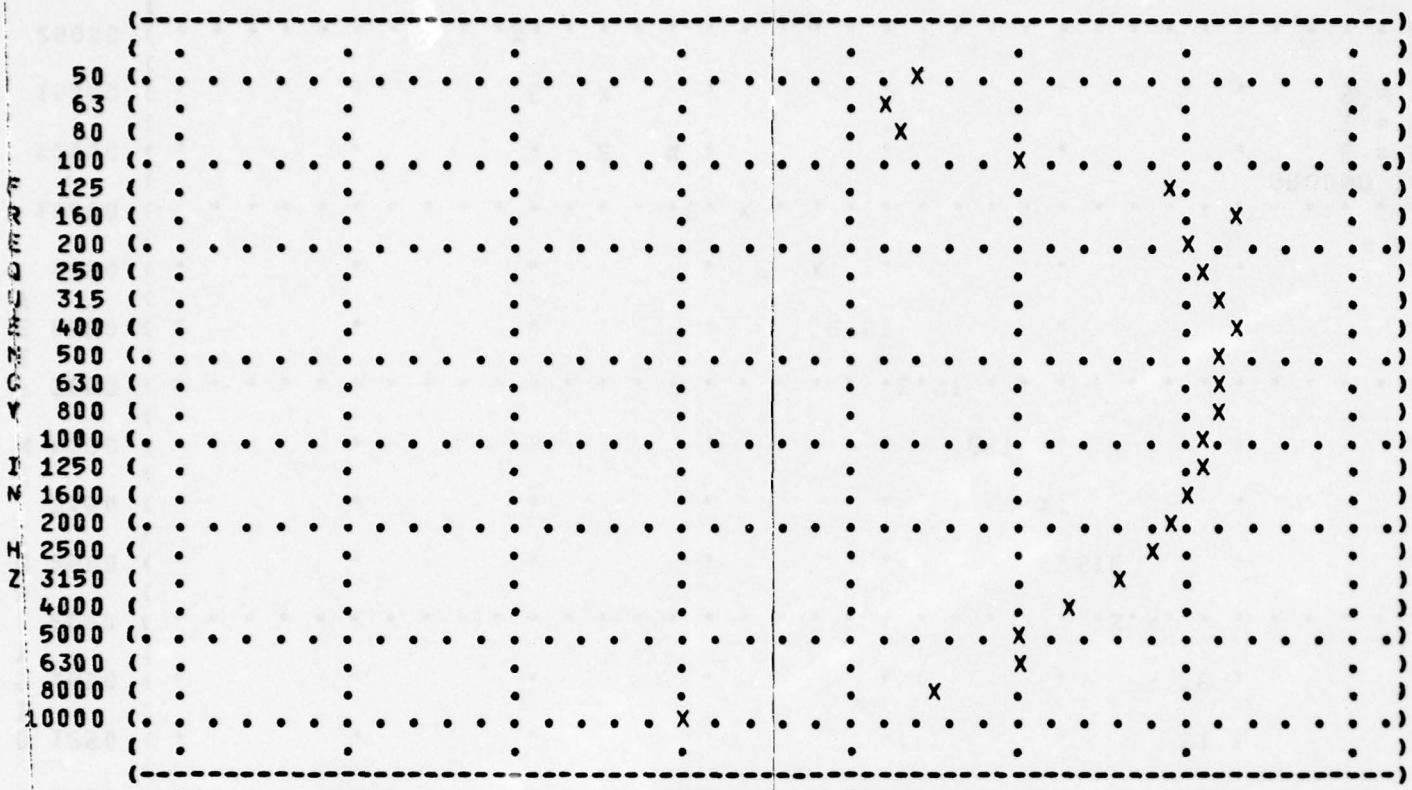
A/C CODE: 043
OPS CODE: 104
PROFILE VER: A
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PAGE M2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	110.1	110.1	123.5	123.5	108.4	109.7	113.3
250	107.9	107.9	121.2	121.2	107.2	108.5	112.1
315	105.6	105.6	118.9	118.9	105.9	107.2	110.8
400	103.3	103.3	116.5	116.5	104.6	105.9	109.4
500	100.9	100.9	114.0	114.0	103.2	104.5	107.9
630	98.5	98.5	111.4	111.4	101.8	103.1	106.3
800	96.0	96.0	108.6	108.6	100.3	101.6	104.5
1000	93.4	93.4	105.7	105.7	98.7	100.0	102.6
1250	90.7	90.7	102.6	102.6	97.0	98.3	100.4
1600	87.9	87.9	99.2	99.2	95.2	96.5	98.1
2000	85.0	85.0	95.5	95.5	93.3	94.6	95.4
2500	81.9	81.9	91.7	91.7	91.2	92.5	92.6
3150	78.5	78.5	87.4	87.4	88.8	90.1	89.3
4000	74.8	74.8	82.8	82.8	86.1	87.2	85.4
5000	70.7	70.7	77.9	77.9	83.0	83.8	81.2
6300	66.2	66.2	72.5	72.5	79.5	80.0	76.6
8000	61.9	61.9	67.9	67.9	76.2	76.4	72.7
10000	57.2	57.2	63.1	63.1	72.5	72.5	68.6
12500	52.2	52.2	57.8	57.8	68.5	68.5	64.4
16000	46.7	46.7	52.0	52.0	64.0	64.0	59.6
20000	40.7	40.7	45.3	45.3	59.0	59.0	53.9
25000	34.2	34.2	37.5	37.5	53.5	53.5	47.1

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-52G CRUISE POWER
83.5 % RPM 1.48 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-043-104-301275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


B-52G CRUISE POWER
83.5 % RPM 1.48 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-043-104-301275-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB



B-52G APPROACH POWER 86 % RPM 1.57 EPR

AIRSPEED = 140 KNOTS
SLANT DISTANCE = 1000 FEET
NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %
IDENT: 6.6-043-105-301275

PNLT = 113.3 PNDB
PNL = 112.7 PNDB
ALT = 101.1 DBA
AL = 100.5 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-52G

OPERATION:
APPROACH POWER
86 % RPM 1.57 EPR
AIRSPEED = 140 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 043
OPS CODE: 105
PROFILE VER: A
30 DEC 75
PAGE H3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	88	86	87	94	103	107	104	105	107	107	107	107	106	106	107	106	106	105	104	103	101	104	104	96
250	86	84	85	92	101	105	102	103	105	105	105	105	104	104	105	104	103	103	102	100	99	102	101	93
315	84	82	83	90	99	103	100	101	103	103	103	103	102	102	102	102	101	101	99	98	96	99	98	89
400	82	80	81	88	97	101	98	99	101	101	101	101	100	100	100	99	99	98	97	95	94	96	94	85
500	80	78	79	86	95	99	96	97	98	99	98	99	98	98	98	97	97	96	94	93	91	92	91	80
630	78	76	77	84	93	97	94	95	96	97	96	97	96	96	96	95	94	94	92	90	87	89	86	74
800	76	74	75	82	91	95	92	93	94	95	94	95	94	93	94	92	92	91	89	86	84	85	81	68
1000	74	72	73	80	89	93	90	91	92	93	92	92	92	91	91	90	89	88	86	83	80	80	75<	60
1250	72	69	71	78	87	91	88	89	90	91	90	90	89	89	89	87	86	85	82	79	76	75	68	51
1600	70	67	69	76	85	89	86	86	88	88	88	88	87	86	86	84	83	82	78	74	71	68	60	40
2000	68	65	67	74	83	87	84	84	86	86	85	85	84	83	83	81	80	78	74	69	65	61	50	27
2500	66	63	65	72	81	85	82	82	84	84	83	83	82	81	80	78	76	74	69	63	58	52	39	10
3150	64	61	62	70	79	82	79	80	81	82	80	80	79	78	77	75	72	69	64	56	50	42	25	
4000	62	59	60	68	77	80	77	78	79	79	78	78	76	75	74	71	68	64	57	48	41	29	7	
5000	60	57	58	66	74	78	75	75	76	76	75	75	73	71	70	66	63	58	49	38	29	14		
6300	58	55	56	64	72	76	72	73	74	74	72	71	69	67	65	61	57	50	40	26	15			
8000	55	53	54	61	70	73	70	70	71	71	69	68	65	63	60	55	50	42	29	11				
10000	53	51	52	59	68	71	67	67	68	67	65	64	61	58	54	48	41	31	16					
12500	51	48	49	57	65	68	65	64	65	64	62	60	56	52	47	40	31	19						
16000	49	46	47	54	62	66	62	61	61	60	57	54	50	45	39	30	19	3						
20000	47	44	45	52	60	63	58	58	58	56	52	49	43	37	30	18	4							
25000	44	41	42	49	57	59	55	54	53	51	46	42	35	27	18	3								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 043
OPS CODE: 105
PROFILE VER: A
30 DEC 75
PAGE I3

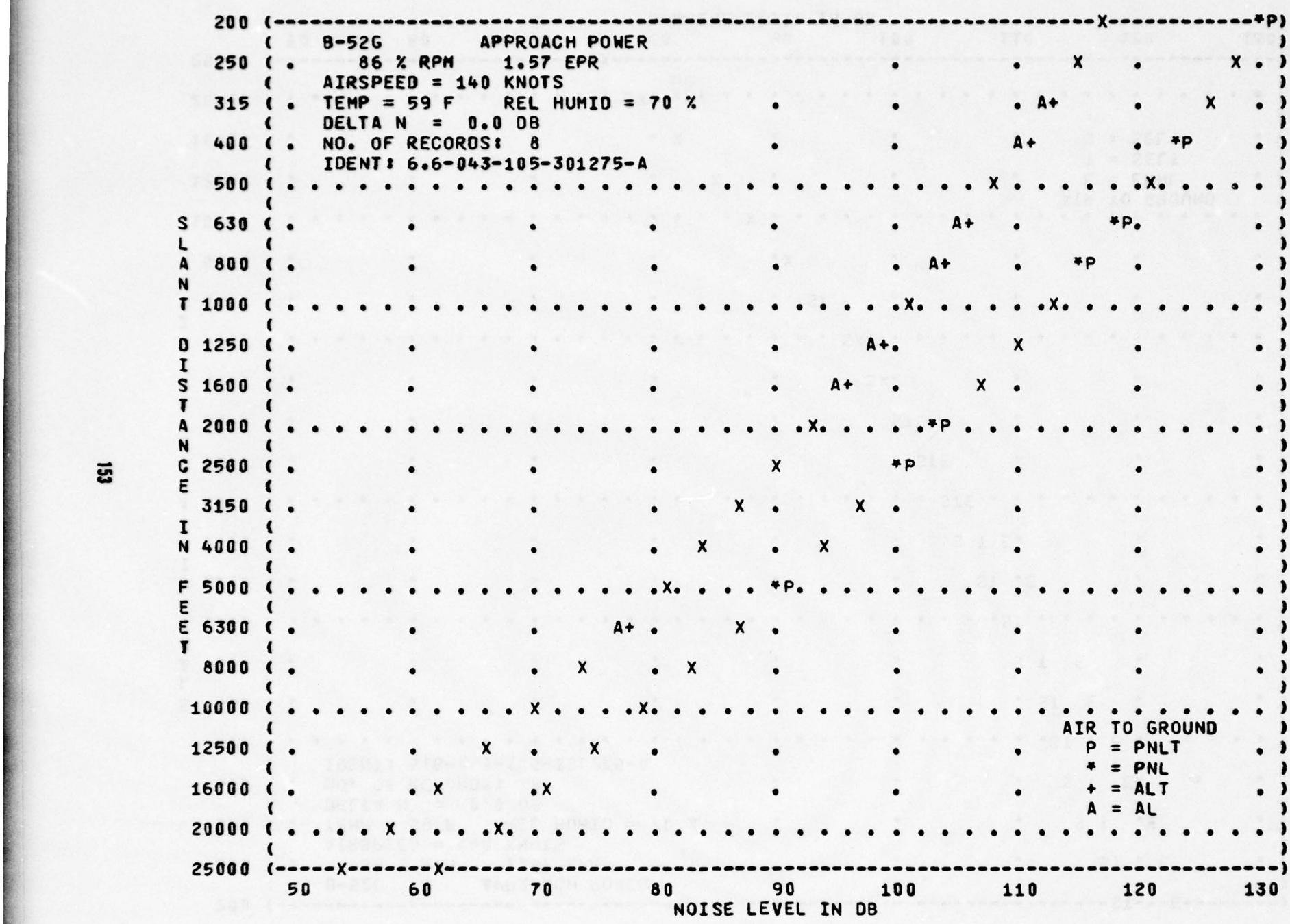
AIRCRAFT: B-52G

OPERATION:
APPROACH POWER
86 % RPM 1.57 EPR
AIRSPEED = 140 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	116.9	117.4	130.1	130.7	118.0	119.4	123.1
250	114.7	115.2	127.8	128.4	116.7	118.2	121.9
315	112.4	113.0	125.5	126.1	115.5	116.9	120.6
400	110.1	110.7	123.2	123.7	114.2	115.7	119.2
500	107.8	108.4	120.7	121.3	112.9	114.3	117.7
630	105.4	106.0	118.2	118.7	111.5	113.0	116.2
800	103.0	103.6	115.5	116.1	110.1	111.5	114.5
1000	100.5	101.1	112.7	113.3	108.6	110.0	112.7
1250	98.0	98.5	109.8	110.3	107.0	108.5	110.8
1600	95.3	95.9	106.7	107.2	105.4	106.9	108.7
2000	92.6	93.2	103.4	104.0	103.7	105.1	106.4
2500	89.8	90.4	100.0	100.6	101.9	103.3	104.1
3150	86.9	87.5	96.9	97.4	100.0	101.4	101.9
4000	83.8	84.3	93.7	94.1	97.9	99.1	99.4
5000	80.7	81.0	90.3	90.7	95.7	96.6	96.8
6300	77.3	77.6	86.9	87.1	93.4	94.0	94.1
8000	73.8	74.0	83.3	83.4	90.9	91.2	91.1
10000	70.2	70.2	79.5	79.5	88.3	88.3	88.0
12500	66.3	66.3	75.4	75.4	85.4	85.4	85.0
16000	62.3	62.3	71.1	71.1	82.4	82.4	81.6
20000	58.1	58.1	66.5	66.5	79.1	79.1	78.1
25000	53.6	53.6	62.0	62.0	75.7	75.7	74.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-52G APPROACH POWER
86 % RPM 1.57 EPR
AIRSPEED = 140 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-043-105-301275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

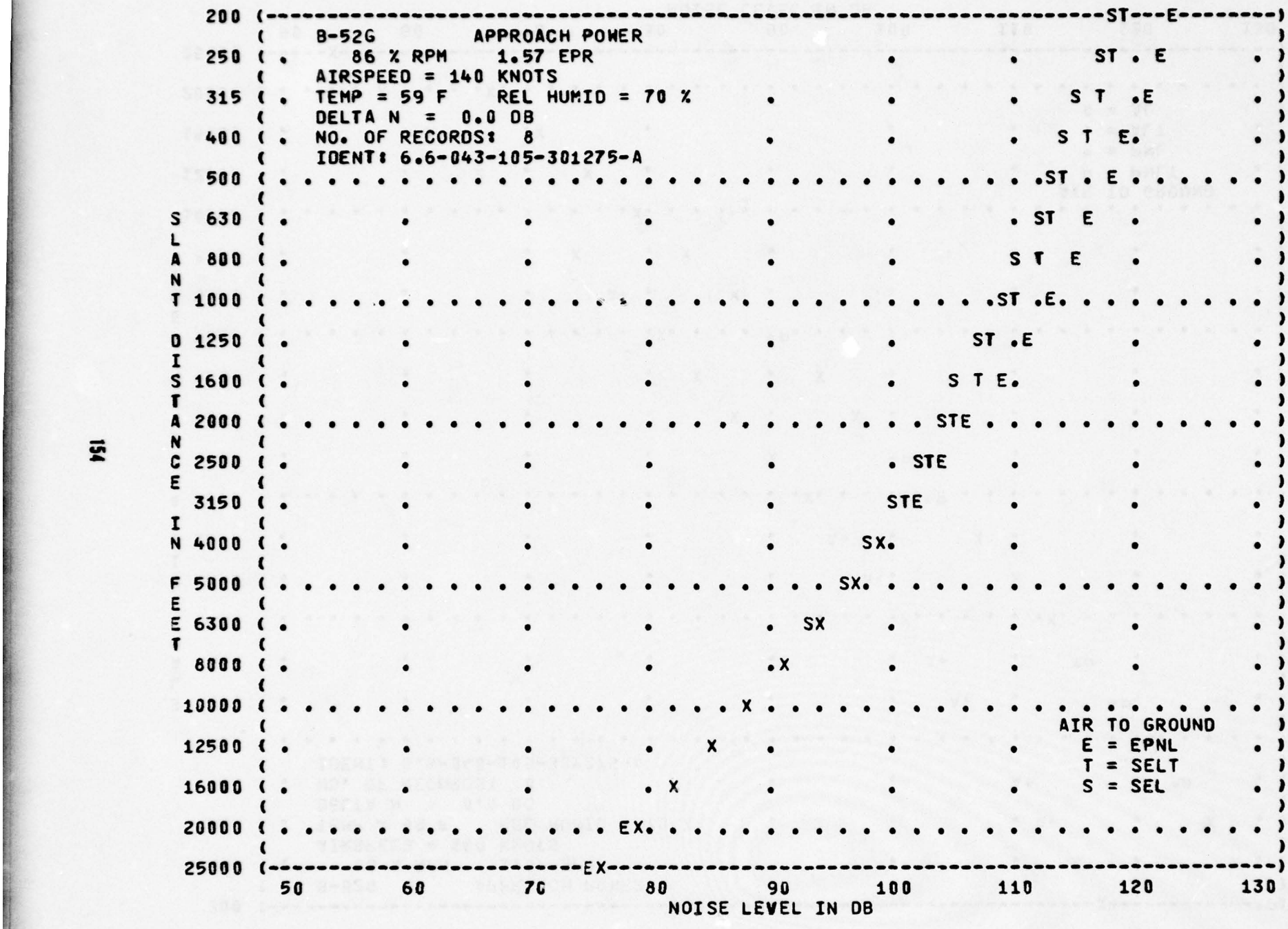

B-52G APPROACH POWER
86 % RPM 1.57 EPR
AIRSPEED = 140 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-043-105-301275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
B-52G

OPERATION:
APPROACH POWER
86 % RPM 1.57 EPR
AIRSPEED = 140 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 043
OPS CODE: 105
PROFILE VER: A
30 DEC 75
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SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	83	81	82	89	98	102	99	100	102	102	102	102	101	101	102	101	101	100	99	98	96	99	99	91
250	81	79	80	87	96	100	97	98	100	100	100	100	99	99	100	99	98	98	97	95	94	97	96	88
315	79	77	78	85	94	98	95	96	98	98	98	98	97	97	97	97	96	96	94	93	91	94	93	84
400	77	75	76	83	92	96	93	94	96	96	96	96	95	95	95	94	94	93	92	90	89	91	89	80
500	75	73	74	81	90	93	91	92	93	94	93	94	93	93	93	92	92	91	89	88	86	87	86	75
630	73	71	72	79	88	91	88	89	91	92	91	92	91	91	91	90	89	89	87	85	82	84	81	69
800	71	69	70	77	85	88	85	86	89	90	89	90	89	88	89	87	87	86	84	81	79	80	76	63
1000	69	67	68	74	82	85	82	83	87	88	87	87	87	86	86	85	84	83	81	78	75	75	70<	55
1250	67	64	65	71	79	82	79	80	84	86	85	85	84	84	84	82	81	80	77	74	71	70	63	46
1600	65	61	61	68	75	79	76	77	81	83	83	83	82	81	81	79	78	77	73	69	66	63	55	35
2000	62	58	58	64	71	75	72	73	77	81	80	80	79	78	78	76	75	73	69	64	60	56	45	22
2500	58	54	54	59	67	70	67	68	73	77	78	78	77	76	75	73	71	69	64	58	53	47	34	5
3150	54	49	49	55	62	66	62	63	69	73	74	75	74	73	72	70	67	64	59	51	45	37	20	
4000	50	44	43	49	57	60	57	58	64	69	71	72	71	70	69	66	63	59	52	43	36	24	2	
5000	45	40	39	44	52	55	52	53	58	63	67	68	67	66	65	61	58	53	44	33	24	9		
6300	40	35	34	40	47	50	47	48	52	58	62	63	63	62	60	56	52	45	35	21	10			
8000	37	33	32	37	45	48	44	45	49	55	59	60	59	58	55	50	45	37	24	6				
10000	35	31	30	35	43	45	42	42	46	51	55	56	55	53	49	43	36	26	11					
12500	33	28	27	33	40	43	39	39	43	48	52	52	50	47	42	35	26	14						
16000	31	26	25	30	37	40	36	36	39	44	47	46	44	40	34	25	14							
20000	29	24	23	28	35	37	33	33	36	40	42	41	37	32	25	13								
25000	26	21	20	25	32	34	29	29	31	35	36	34	29	22	13									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: B-52G

OPERATION: APPROACH POWER, 86 % RPM 1.57 EPR, AIRSPEED = 140 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %

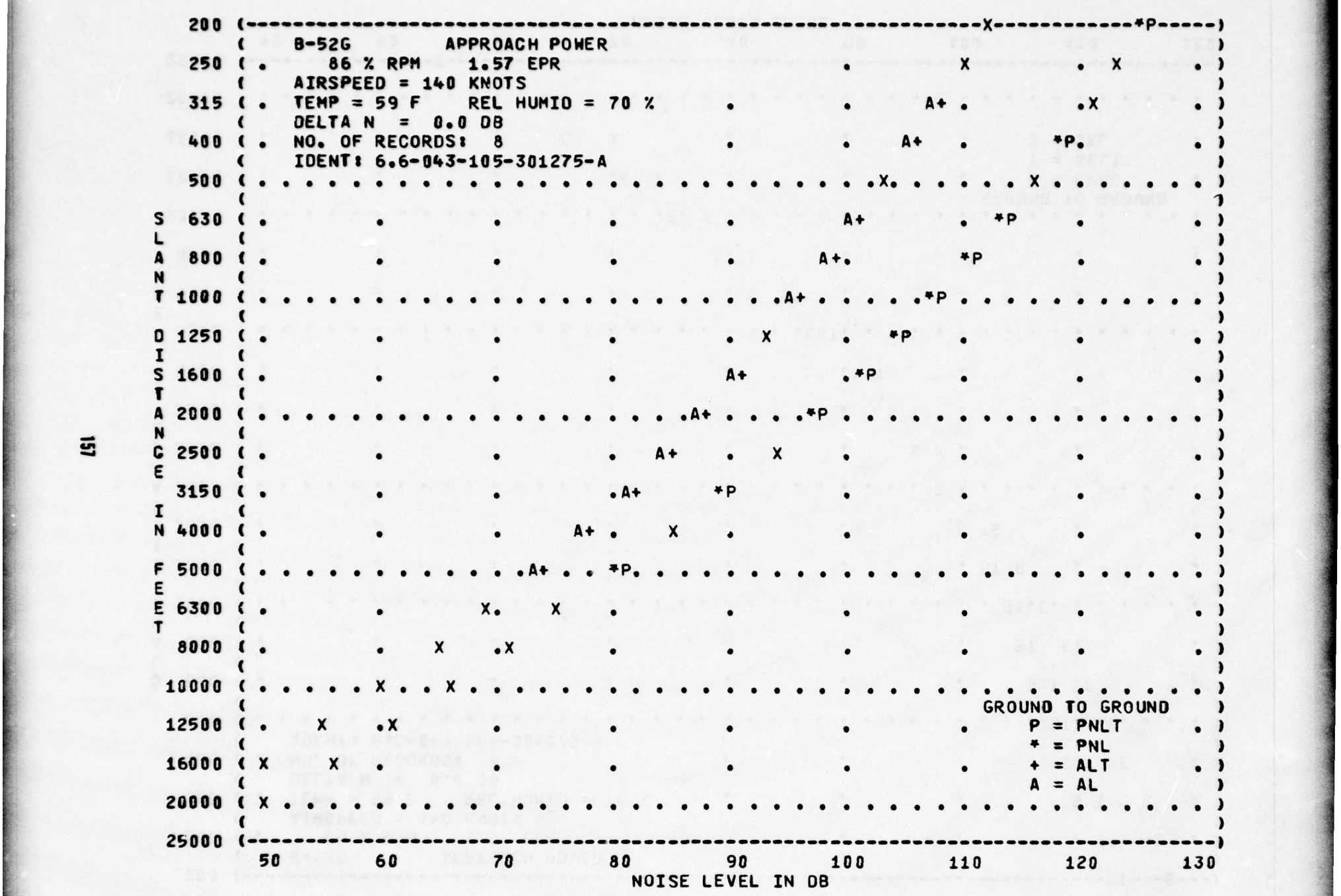
DELTA N = 0.0 DB

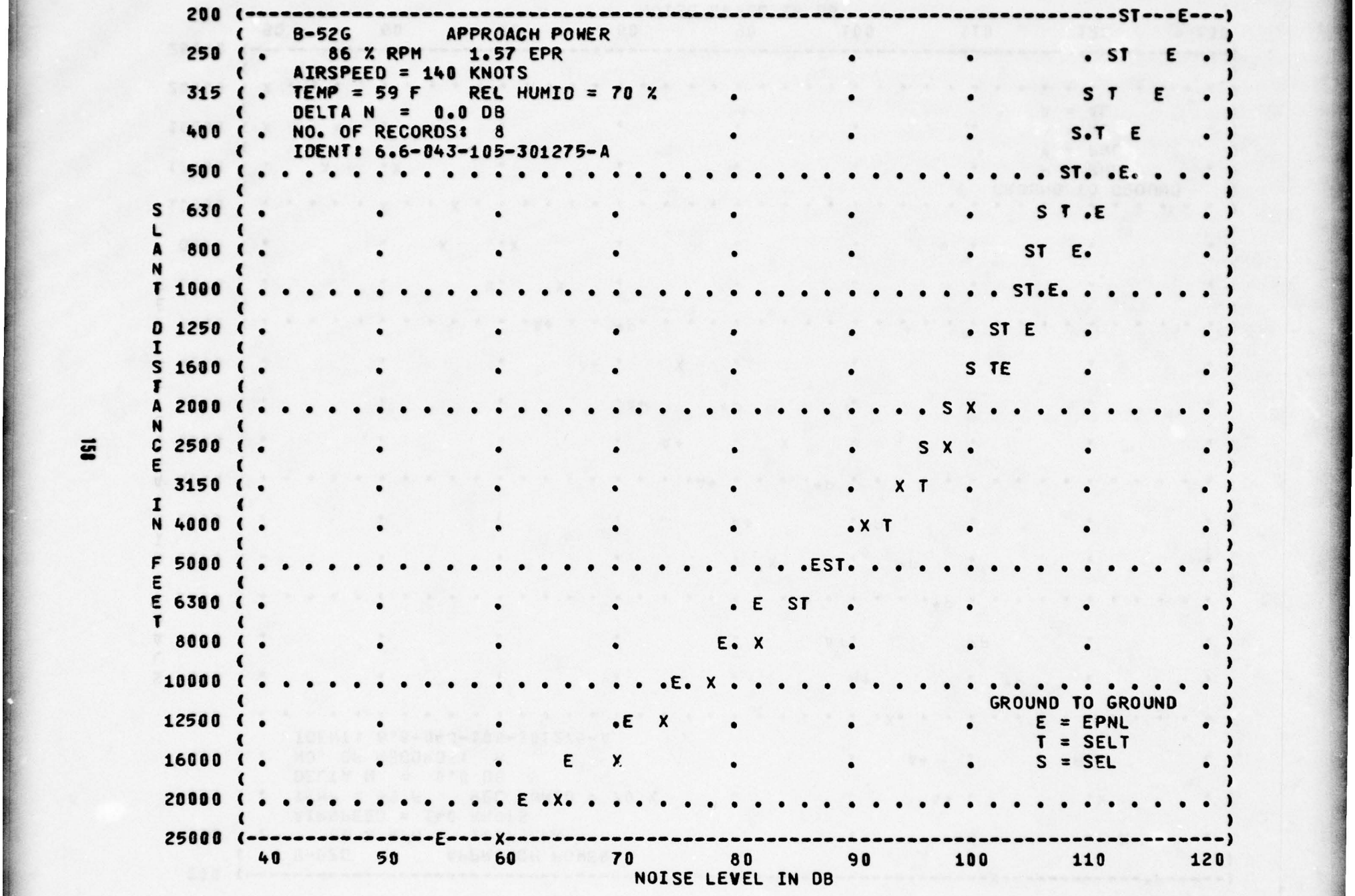
A/C CODE: 043
OPS CODE: 105
PROFILE VER: A
30 DEC 75
PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	111.9	112.4	125.1	125.6	113.0	114.4	118.1
250	109.7	110.2	122.8	123.4	111.7	113.2	116.9
315	107.4	108.0	120.5	121.1	110.5	111.9	115.6
400	105.1	105.7	118.1	118.7	109.2	110.7	114.2
500	102.8	103.4	115.7	116.2	107.9	109.3	112.7
630	100.4	101.0	113.1	113.6	106.5	107.9	111.1
800	98.0	98.5	110.3	110.9	105.0	106.5	109.4
1000	95.5	96.0	107.4	108.0	103.5	105.0	107.5
1250	92.8	93.4	104.3	104.9	101.9	103.4	105.3
1600	90.1	90.7	101.0	101.5	100.2	101.7	103.0
2000	87.3	87.9	97.4	98.0	98.4	99.9	100.4
2500	84.3	84.9	93.6	94.1	96.4	97.8	97.6
3150	81.0	81.6	89.4	90.0	94.1	95.5	94.4
4000	77.4	77.8	85.0	85.5	91.5	92.6	90.8
5000	73.3	73.6	80.2	80.6	88.4	89.2	86.7
6300	68.9	69.1	75.2	75.4	85.0	85.5	82.4
8000	64.7	64.8	70.9	71.0	81.8	82.1	78.8
10000	60.2	60.2	66.3	66.3	78.3	78.3	74.8
12500	55.3	55.3	61.2	61.2	74.3	74.3	70.8
16000	49.9	49.9	55.8	55.8	70.0	70.0	66.4
20000	44.1	44.1	49.9	49.9	65.2	65.2	61.5
25000	37.8	37.8	42.7	42.7	59.8	59.8	55.3

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-52G APPROACH POWER
86 % RPM 1.57 EPR
AIRSPEED = 140 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-043-105-301275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


B-52G APPROACH POWER
86 % RPM 1.57 EPR
AIRSPEED = 140 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-043-105-301275-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

USAF B-52G AIRCRAFT B-52G AIRCRAFT B-52G AIRCRAFT B-52G AIRCRAFT B-52G AIRCRAFT B-52G AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

B-52G AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-004-015
AIRCRAFT CODE: 043
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING — PAGE

IDLE 61% RPM . . . . . 160 - 165
80% RPM . . . . . 166 - 171
90% RPM . . . . . 172 - 177
MAX PWR (DRY) 94% RPM . . . . . 178 - 183

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
- NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
- PERCEIVED NOISE LEVEL
- TONE-CORRECTED, PERCEIVED NOISE LEVEL
- A-WEIGHTED OVERALL SOUND LEVEL
- TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF B-52G AIRCRAFT B-52G AIRCRAFT B-52G AIRCRAFT B-52G AIRCRAFT B-52G AIRCRAFT B-52G AIRCRAFT

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 01

NOISE SOURCE/SUBJECT:
B-52G AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
IDLE, 61% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

AIRCRAFT CODE 043
OPERATION CODE 06013
PROFILE VERSION A
18 DEC 75
PAGE C1

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	70	69	68	68	69	68	68	69	70	69	70	70	70	71	73	72	68	58	48
63	67	67	67	66	67	67	67	69	70	69	70	71	72	73	73	72	68	58	48
80	66	65	66	65	66	66	65	67	68	69	69	70	71	72	72	71	68	58	48
100	68	69	69	69	68	69	71	71	71	71	73	74	73	75	74	72	69	59	49
125	66	67	67	68	66	67	68	69	69	70	69	72	74	74	74	71	67	57	47
160	69	70	69	70	67	68	69	71	71	71	70	71	74	75	74	71	67	57	47
200	69	70	70	70	68	68	68	70	71	71	71	72	72	73	73	70	64	54	44
250	70	70	70	71	70	69	70	71	72	73	73	73	74	72	73	69	64	54	44
315	71	72	73	72	71	71	71	72	72	72	73	73	75	74	72	70	65	55	45
400	76	76	75	75	74	73	73	74	76	78	76	76	74	75	72	70	66	56	46
500	76	76	76	75	73	72	71	73	74	74	74	75	73	73	71	69	65	55	45
630	77	77	77	76	75	73	72	72	74	74	73	74	74	73	70	69	65	55	45
800	79	78	79	78	76	74	72	72	72	72	72	72	72	71	70	68	65	55	45
1000	83	82	82	82	81	78	78	81	79	77	76	75	74	73	73	71	68	58	48
1250	86	85	87	86	84	79	80	82	79	77	77	77	77	75	75	72	68	58	48
1600	81	81	83	82	84	80	80	78	75	71	72	72	74	72	71	70	65	55	45
2000	88	87	87	85	83	82	82	79	76	73	73	73	73	72	71	68	64	54	44
2500	85	84	83	81	80	79	78	77	73	69	71	71	72	70	68	67	63	53	43
3150	83	83	83	83	83	82	83	83	79	78	81	82	80	78	75	71	67	57	47
4000	80	80	80	80	79	77	78	78	79	79	83	86	85	82	79	75	72	62	52
5000	78	77	77	77	76	72	72	72	69	68	71	72	72	69	66	65	60	50	40
6300	73	73	73	72	72	70	70	70	68	68	72	73	72	69	67	65	60	50	40
8000	70	71	70	69	70	70	70	70	70	71	74	75	76	73	71	70	65	55	45
10000	63	63	63	62	62	60	61	61	60	62	67	68	68	63	60	57	51	41	31
OVERALL	94	93	93	92	92	89	90	90	88	87	89	90	90	88	86	84	80	70	60

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52G AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
IDLE, 61% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 01
AIRCRAFT CODE 043
OPERATION CODE 06013
PROFILE VERSION A
18 DEC 75
PAGE 01

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	108.5	108.0	108.0	107.5	106.9	105.3	105.8	105.8	103.7	103.3	106.0	107.7	107.2	105.0	102.3	99.4	95.5	85.3	75.0
250	106.3	105.8	105.7	105.2	104.6	103.0	103.5	103.5	101.4	100.9	103.6	105.3	104.8	102.5	100.0	97.0	93.1	82.9	72.6
315	104.0	103.5	103.5	102.9	102.3	100.6	101.1	101.2	99.0	98.5	101.2	102.9	102.4	100.2	97.5	94.6	90.7	80.5	70.1
400	101.7	101.1	101.1	100.4	99.8	98.2	98.7	98.7	96.6	96.0	98.6	100.3	99.8	97.7	95.0	92.1	88.2	77.9	67.5
500	99.3	98.7	98.7	97.9	97.3	95.7	96.1	96.2	94.1	93.4	95.9	97.6	97.1	95.0	92.3	89.4	85.5	75.3	64.7
630	96.7	96.2	96.2	95.3	94.6	93.0	93.5	93.5	91.4	90.5	93.1	94.8	94.3	92.2	89.5	86.6	82.7	72.4	61.8
800	94.1	93.5	93.5	92.4	91.8	90.2	90.6	90.7	88.6	87.6	90.1	91.7	91.2	89.1	86.5	83.6	79.7	69.3	58.6
1000	91.3	90.7	90.7	89.5	88.8	87.1	87.6	87.7	85.5	84.4	86.8	88.4	87.9	85.9	83.3	80.4	76.4	66.0	55.0
1250	88.3	87.7	87.7	86.5	85.5	83.8	84.3	84.4	82.2	81.1	83.2	84.7	84.3	82.3	79.7	76.9	72.9	62.3	50.9
1600	85.1	84.5	84.5	83.3	82.3	80.4	80.7	80.8	78.7	77.6	79.5	80.7	80.3	78.4	75.8	73.0	69.0	58.2	46.2
2000	81.6	81.1	81.1	79.9	78.8	76.9	76.9	76.9	74.8	73.7	75.5	76.4	75.9	74.0	71.6	68.8	64.6	53.6	41.1
2500	77.8	77.2	77.3	76.1	75.0	73.0	73.0	72.6	70.5	69.3	71.0	71.4	70.9	69.1	67.0	64.4	60.0	48.2	35.5
3150	73.7	73.1	73.1	71.9	70.8	68.8	68.7	68.2	66.2	64.7	65.9	66.4	65.8	64.1	62.5	60.2	55.8	43.4	29.0
4000	69.0	68.4	68.5	67.2	66.3	64.0	63.9	63.8	61.8	60.3	60.6	60.7	60.7	59.2	57.9	55.5	50.6	38.4	16.3
5000	63.6	63.1	63.4	62.4	61.4	58.7	58.6	59.0	56.9	55.4	55.5	55.4	55.5	54.0	52.7	50.1	45.1	31.8	3.6
6300	58.0	57.2	58.2	57.1	55.8	53.0	52.7	53.5	51.4	49.8	49.8	49.6	49.7	48.0	46.5	43.8	38.7	21.6	
8000	52.6	51.6	52.8	51.7	50.4	46.6	46.7	48.1	45.6	44.0	43.6	43.3	43.6	41.7	40.2	37.7	32.2	7.4	
10000	45.9	44.9	46.3	45.1	43.4	39.4	39.3	41.6	39.1	37.6	37.2	37.6	37.0	35.8	33.2	30.5	23.2		
12500	38.0	36.8	38.2	37.0	35.4	31.8	31.4	33.6	31.4	30.9	30.6	31.0	30.2	28.8	25.4	21.9	10.1		
16000	28.2	27.3	28.1	26.8	24.6	19.5	19.4	23.6	21.7	22.5	22.1	22.3	19.8	18.3	14.3	7.7			
20000	14.3	14.5	14.1	11.5	13.8	7.2	7.3	13.7	7.2	11.3	8.5	9.9	9.3	7.9	3.2				
25000	.4	1.7	.2		3.0			3.7		.1									

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 01
AIRCRAFT CODE 043
OPERATION CODE 06013
PROFILE VERSION A
18 DEC 75
PAGE E1

NOISE SOURCE/SUBJECT:
B-52G AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
IDLE, 61% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -9.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	110.1	109.4	109.5	108.7	108.0	106.5	107.3	107.6	105.1	105.8	108.9	111.1	110.5	108.2	105.2	101.8	98.1	88.0	77.7
250	107.9	107.1	107.3	106.4	105.7	104.2	105.0	105.3	102.8	103.4	106.6	108.8	108.1	105.9	102.8	99.4	95.8	85.6	75.3
315	105.6	104.9	105.0	104.1	103.4	101.9	102.7	103.0	100.5	101.0	104.1	106.3	105.7	103.4	100.4	97.0	93.4	83.2	72.8
400	103.2	102.5	102.7	101.6	101.0	99.4	100.2	100.5	98.0	98.5	101.6	103.8	103.1	100.9	97.9	94.5	90.8	80.6	70.2
500	100.8	100.1	100.2	99.1	98.4	96.9	97.7	98.0	95.5	95.9	98.9	101.1	100.4	98.2	95.2	91.8	88.2	77.9	67.4
630	98.3	97.6	97.7	96.4	95.8	94.2	95.0	95.3	92.8	93.1	96.1	98.2	97.6	95.4	92.4	89.0	85.4	75.0	64.5
800	95.6	94.9	95.0	93.6	92.9	91.4	92.2	92.5	90.0	90.1	93.0	95.2	94.5	92.3	89.4	86.0	82.4	71.9	61.2
1000	92.8	92.1	92.2	90.7	89.9	88.4	89.1	89.5	87.0	87.0	89.7	91.8	91.2	89.1	86.2	82.8	79.1	68.6	57.7
1250	89.8	89.1	89.2	87.7	86.7	85.1	85.8	86.2	83.7	83.6	86.2	88.2	87.6	85.5	82.6	79.3	75.5	65.0	53.6
1500	86.6	85.9	86.1	84.5	83.4	81.6	82.3	82.6	80.1	80.1	82.4	84.2	83.6	81.5	78.7	75.4	71.6	60.9	48.8
2000	83.2	82.4	82.6	81.1	79.9	78.1	78.4	78.7	76.3	76.2	78.5	79.8	79.2	77.3	74.5	71.2	67.2	56.3	43.8
2500	79.4	78.6	78.8	77.2	76.1	74.2	74.5	74.3	71.9	71.8	73.9	74.9	74.2	72.4	69.9	66.8	62.7	50.9	38.2
3150	75.2	74.4	74.7	73.1	72.0	70.0	70.3	70.0	67.6	67.3	68.9	69.8	69.1	67.3	65.4	62.6	58.5	46.1	31.7
4000	70.3	69.5	69.7	68.1	67.3	65.0	65.2	65.2	62.9	62.3	62.9	63.5	63.3	61.8	60.2	57.4	52.7	40.6	18.4
5000	64.7	64.0	64.3	63.1	62.1	59.4	59.5	60.1	57.8	56.9	57.3	57.4	57.5	55.9	54.4	51.6	46.7	33.4	5.2
6300	58.0	57.7	58.8	57.6	56.3	53.5	53.3	54.3	52.0	50.8	51.0	51.0	51.1	49.3	47.7	44.8	39.8	22.7	
8000	52.9	51.9	53.1	51.9	50.6	46.9	47.0	48.4	45.9	44.5	44.2	44.0	44.2	42.3	40.8	38.2	32.7	7.9	
10000	45.9	44.9	46.3	45.1	43.4	39.4	39.3	41.6	39.1	37.6	37.2	37.6	37.0	35.8	33.2	30.5	23.2		
12500	38.0	36.8	38.2	37.0	35.4	31.8	31.4	33.6	31.4	30.9	30.6	31.0	30.2	28.8	25.4	21.9	10.1		
16000	28.2	27.3	28.1	26.8	24.6	19.5	19.4	23.6	21.7	22.5	22.1	22.3	19.8	18.3	14.3	7.7			
20000	14.3	14.5	14.1	11.5	13.8	7.2	7.3	13.7	7.2	11.3	8.5	9.9	9.3	7.9	3.2				
25000	.4	1.7	.2		3.0			3.7		.1									

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-525 AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
IDLE, 61% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 01
AIRCRAFT CODE 043
OPERATION CODE 06013
PROFILE VERSION A
18 DEC 75
PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	96.3	95.6	96.0	95.0	94.3	91.9	92.1	92.1	89.9	88.7	90.9	92.3	91.6	89.2	86.7	84.0	80.2	70.2	60.2
250	94.1	93.4	93.8	92.8	92.1	89.7	89.9	89.9	87.7	86.5	88.6	89.9	89.2	86.9	84.4	81.8	77.9	67.9	57.9
315	91.9	91.2	91.6	90.6	89.9	87.4	87.6	87.7	85.4	84.2	86.2	87.5	86.8	84.5	82.1	79.5	75.6	65.6	55.6
400	89.6	88.9	89.3	88.3	87.6	85.1	85.3	85.4	83.1	81.9	83.7	85.0	84.3	82.1	79.7	77.1	73.2	63.2	53.2
500	87.3	86.6	87.0	86.0	85.3	82.7	82.9	83.0	80.7	79.5	81.2	82.4	81.7	79.5	77.2	74.7	70.8	60.8	50.8
630	84.9	84.1	84.5	83.6	82.8	80.3	80.5	80.6	78.3	77.0	78.6	79.7	79.0	76.9	74.7	72.1	68.3	58.3	48.3
800	82.4	81.6	82.1	81.1	80.3	77.8	77.9	78.1	75.7	74.4	75.8	76.8	76.2	74.1	72.0	69.5	65.7	55.7	45.7
1000	79.8	79.0	79.6	78.5	77.7	75.1	75.2	75.5	73.1	71.8	72.9	73.7	73.2	71.2	69.3	66.9	63.0	53.0	43.0
1250	77.1	76.3	76.9	75.8	75.0	72.3	72.4	72.7	70.4	69.0	69.9	70.5	70.0	68.2	66.4	64.1	60.2	50.2	40.2
1600	74.2	73.4	74.0	73.0	72.2	69.4	69.5	69.9	67.6	66.2	66.7	67.2	66.7	65.1	63.4	61.2	57.3	47.3	37.3
2000	71.2	70.3	71.0	70.0	69.2	66.3	66.3	66.9	64.6	63.3	63.5	63.7	63.4	61.9	60.4	58.2	54.3	44.3	34.3
2500	67.9	67.1	67.8	66.8	65.9	63.0	63.0	63.7	61.5	60.1	60.1	60.2	59.9	58.5	57.1	55.0	51.2	41.2	31.2
3150	64.4	63.6	64.4	63.4	62.5	59.5	59.4	60.3	58.1	56.8	56.5	56.4	56.3	55.0	53.7	51.7	47.8	37.8	27.8
4000	60.7	59.8	60.7	59.7	58.7	55.6	55.6	56.6	54.4	53.1	52.7	52.6	52.4	51.2	50.0	48.0	44.2	34.2	24.2
5000	56.5	55.6	56.5	55.6	54.6	51.4	51.4	52.6	50.4	49.1	48.6	48.4	48.3	47.0	45.9	43.9	40.2	30.2	20.2
6300	51.9	51.0	52.0	51.1	50.1	46.8	46.7	48.3	46.1	44.7	44.2	43.9	43.8	42.6	41.6	39.6	35.9	25.9	15.9
8000	47.1	46.1	47.2	46.3	45.2	42.0	41.9	43.6	41.0	40.4	39.9	39.7	39.5	38.4	37.2	35.2	31.6	21.6	11.6
10000	41.8	40.9	41.8	41.0	39.9	36.7	36.5	38.4	36.7	35.8	35.2	35.1	34.8	33.8	32.4	30.5	26.8	16.8	6.8
12500	36.6	35.2	36.0	35.2	34.0	31.1	30.7	32.5	31.3	30.7	30.1	30.1	29.7	28.8	27.3	25.4	21.7	11.7	1.7
16000	29.7	29.0	29.5	28.8	27.5	24.9	24.4	26.1	25.5	25.2	24.6	24.7	24.2	23.5	21.8	19.9	16.1	6.1	
20000	22.8	22.2	22.5	21.9	20.5	18.3	17.7	19.2	19.2	19.3	18.7	19.0	18.4	17.8	15.9	14.1	10.1	.1	
25000	15.4	15.0	15.1	14.5	13.1	11.3	10.7	11.9	12.0	13.0	12.5	12.8	12.1	11.8	9.8	7.9	3.8		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-525 AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
IDLE, 61% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 01
AIRCRAFT CODE 043
OPERATION CODE 06013
PROFILE VERSION A
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PAGE G1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	97.9	97.0	97.5	96.2	95.4	93.1	93.0	93.9	91.3	91.3	93.8	95.7	94.9	92.4	89.6	86.4	82.9	72.9	62.9
250	95.7	94.8	95.3	94.0	93.2	90.9	91.4	91.7	89.1	89.0	91.5	93.4	92.5	90.1	87.3	84.2	80.6	70.6	60.6
315	93.5	92.6	93.1	91.8	91.0	88.6	89.2	89.5	86.9	86.7	89.2	91.0	90.1	87.8	85.0	81.9	78.3	68.3	58.3
400	91.2	90.3	90.9	89.5	88.7	86.3	86.9	87.2	84.5	84.4	86.7	88.5	87.6	85.3	82.6	79.5	75.9	65.9	55.9
500	88.9	88.0	88.5	87.2	86.4	84.0	84.5	84.8	82.2	82.0	84.2	85.9	85.0	82.8	80.1	77.1	73.5	63.5	53.5
630	86.4	85.5	86.1	84.8	84.0	81.5	82.0	82.4	79.7	79.5	81.5	83.1	82.3	80.1	77.6	74.5	70.9	60.9	50.9
800	83.9	83.0	83.7	82.3	81.5	79.0	79.4	79.9	77.2	76.9	78.8	80.3	79.5	77.4	74.9	71.9	68.3	58.3	48.3
1000	81.3	80.4	81.1	79.7	78.9	76.3	76.8	77.2	74.5	74.3	75.9	77.2	76.5	74.5	72.1	69.3	65.6	55.6	45.6
1250	78.6	77.7	78.4	77.0	76.2	73.5	74.0	74.5	71.8	71.6	72.8	74.0	73.3	71.5	69.3	66.5	62.8	52.8	42.8
1500	75.8	74.8	75.6	74.2	73.3	70.6	71.0	71.7	69.0	68.7	69.7	70.7	70.0	68.3	66.3	63.6	60.0	50.0	40.0
2000	72.7	71.7	72.6	71.2	70.3	67.5	67.9	68.7	66.0	65.8	66.5	67.2	66.7	65.1	63.2	60.6	57.0	47.0	37.0
2500	69.5	68.5	69.4	68.0	67.1	64.2	64.5	65.5	62.9	62.7	63.1	63.6	63.2	61.7	60.0	57.5	53.8	43.8	33.8
3150	66.6	65.0	65.9	64.6	63.6	60.7	61.0	62.1	59.5	59.3	59.5	59.9	59.6	58.2	56.6	54.1	50.5	40.5	30.5
4000	61.9	60.9	61.9	60.6	59.7	56.6	56.8	58.0	55.0	55.1	55.1	55.3	55.1	53.8	52.3	49.9	46.4	36.4	26.4
5000	57.4	56.4	57.5	56.3	55.3	52.1	52.3	53.7	51.3	50.0	50.4	50.5	50.2	49.0	47.7	45.4	41.8	31.8	21.8
6300	52.5	51.5	52.6	51.6	50.5	47.3	47.4	49.0	46.7	45.7	45.4	45.3	45.1	43.9	42.7	40.5	37.0	27.0	17.0
8000	47.4	46.4	47.5	46.5	45.4	42.2	42.2	43.9	41.9	41.0	40.5	40.4	40.1	39.0	37.8	35.7	32.1	22.1	12.1
10000	41.8	40.9	41.8	41.0	39.9	36.7	36.5	38.4	36.7	35.8	35.2	35.1	34.8	33.8	32.4	30.5	26.8	16.8	6.8
12500	36.6	35.2	36.0	35.2	34.0	31.1	30.7	32.5	31.3	30.7	30.1	30.1	29.7	28.8	27.3	25.4	21.7	11.7	1.7
16000	29.7	29.0	29.5	28.8	27.5	24.9	24.4	26.1	25.5	25.2	24.6	24.7	24.2	23.5	21.8	19.9	16.1	6.1	
20000	22.8	22.2	22.5	21.9	20.5	18.3	17.7	19.2	19.2	19.3	18.7	19.0	18.4	17.8	15.9	14.1	10.1	.1	
25000	15.4	15.0	15.1	14.5	13.1	11.3	10.7	11.9	12.6	13.0	12.5	12.8	12.1	11.8	9.8	7.9	3.8		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

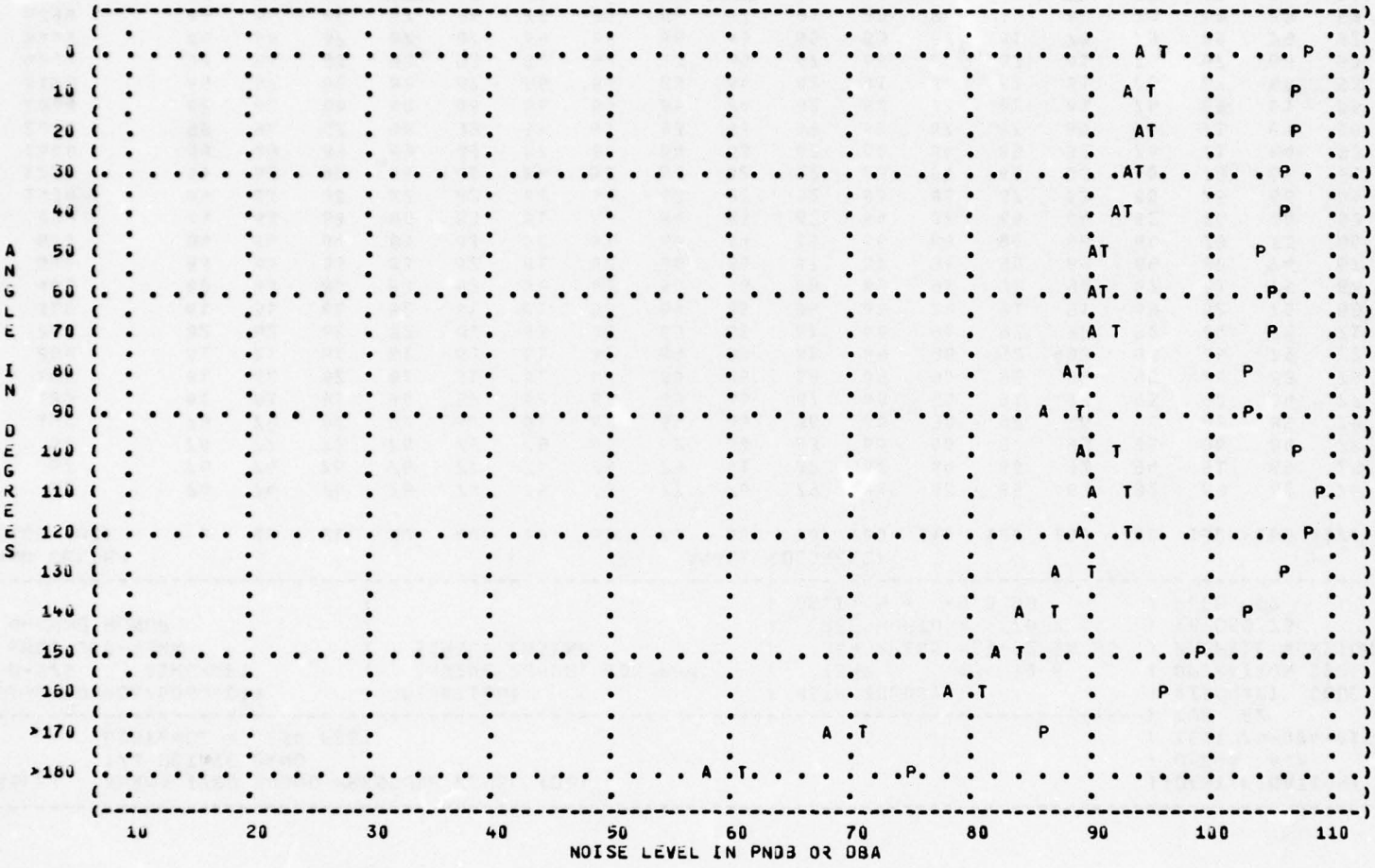
NOISE SOURCE/SUBJECT:
B-52G AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
IDLE, 61% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 01
AIRCRAFT CODE 043
OPERATION CODE 06013
PROFILE VERSION A
18 DEC 75
PAGE J1

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
B-52G AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 02
AIRCRAFT CODE 043
OPERATION CODE 06019
PROFILE VERSION A
18 DEC 75
PAGE C2

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
50	74	74	74	75	74	75	76	77	78	79	81	83	85	89	92	89	82	76	69
63	76	76	76	76	77	76	78	79	81	82	82	84	88	91	94	91	85	78	71
80	78	77	78	78	78	79	80	82	83	83	85	86	90	93	96	90	84	77	70
100	79	79	80	80	80	81	83	84	85	86	88	90	92	95	96	92	85	79	72
125	81	81	81	80	80	82	83	85	85	87	88	90	91	97	95	90	84	77	70
160	81	82	82	81	81	81	83	85	86	88	89	90	92	96	95	88	82	75	68
200	81	81	81	81	80	81	82	84	85	86	89	90	92	93	93	85	79	72	65
250	82	82	82	82	81	83	82	85	85	87	88	91	92	92	92	84	78	71	64
315	81	81	81	82	81	81	83	85	85	86	86	89	91	91	89	82	75	69	62
400	82	83	83	83	82	82	83	86	86	88	89	91	92	90	87	81	75	68	61
500	83	83	83	83	82	81	82	86	86	87	87	91	90	89	86	80	74	67	60
630	84	84	84	83	83	82	81	85	84	85	86	89	90	86	84	79	73	66	59
800	84	83	83	83	83	81	80	84	83	83	84	87	88	84	82	76	70	63	56
1000	84	83	83	82	82	81	80	83	82	82	83	86	87	83	80	75	68	61	55
1250	88	88	90	88	88	84	82	83	82	82	83	85	86	83	80	72	66	59	52
1600	89	89	89	89	88	87	86	84	83	82	82	84	85	82	78	71	64	58	51
2000	95	96	97	98	99	98	95	93	93	89	88	87	87	85	80	71	65	58	51
2500	88	88	88	88	88	86	85	85	84	82	82	82	82	81	76	68	61	55	48
3150	89	87	88	88	87	86	86	85	84	82	81	82	82	81	76	67	60	53	47
4000	93	93	93	93	93	92	92	93	90	87	85	84	83	81	76	67	60	53	47
5000	88	88	87	87	87	86	86	86	85	85	83	82	81	78	75	65	59	52	45
6300	86	86	86	87	86	85	85	86	87	91	90	90	89	84	79	68	62	55	48
8000	83	83	83	83	83	82	82	81	80	82	82	84	85	81	77	68	61	54	48
10000	78	78	77	76	77	77	76	76	75	76	76	76	76	72	69	58	52	45	38
OVERALL	101	101	101	102	102	101	100	100	99	99	100	102	103	104	104	99	92	86	79

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52G AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 02
AIRCRAFT CODE 043
OPERATION CODE 06019
PROFILE VERSION A
18 DEC 75
PAGE D2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	117.2	117.0	117.3	118.0	118.2	117.3	115.9	115.7	115.1	114.8	114.4	115.1	115.3	112.9	110.6	104.1	97.3	90.4	83.0
250	114.8	114.6	115.1	115.7	116.0	115.1	113.6	114.4	112.8	112.4	112.0	112.7	113.0	110.5	108.5	101.9	95.1	88.1	80.7
315	112.4	112.2	112.8	113.4	113.7	112.8	111.2	112.0	110.4	109.9	109.5	110.2	110.5	108.3	106.3	99.8	92.9	85.7	78.3
400	109.9	109.7	110.4	111.1	111.3	110.4	108.9	109.5	107.9	107.2	106.9	107.6	107.9	106.0	104.1	97.5	90.7	83.3	75.9
500	107.2	107.3	108.0	108.6	108.9	108.0	106.4	106.8	105.5	104.4	104.1	104.9	105.2	103.5	101.7	95.2	88.3	80.8	73.3
630	104.5	104.7	105.4	106.1	106.3	105.4	103.8	104.0	102.9	101.6	101.1	101.9	102.4	101.0	99.2	92.9	85.7	78.2	70.7
800	101.8	102.0	102.7	103.4	103.6	102.7	101.1	101.0	100.2	98.9	98.4	99.1	99.8	98.3	96.5	90.3	82.9	75.4	68.1
1000	98.9	99.1	99.8	100.5	100.8	99.9	98.3	97.8	97.3	95.9	95.5	96.2	95.9	95.5	93.6	87.3	79.8	72.5	65.3
1250	95.9	96.1	96.8	97.5	97.8	96.9	95.2	94.7	94.2	92.8	92.4	93.1	93.8	92.6	90.4	83.9	76.6	69.6	62.3
1600	92.6	92.8	93.6	94.2	94.5	93.6	91.9	91.4	90.9	89.5	89.0	89.8	90.7	89.5	87.2	80.6	73.6	66.4	59.0
2000	89.0	89.3	90.0	90.7	91.0	90.1	88.3	87.8	87.4	85.9	85.5	86.5	87.4	86.2	83.9	77.3	70.3	63.1	55.4
2500	85.2	85.4	86.2	86.9	87.2	86.3	84.4	83.9	83.5	81.9	81.5	82.8	83.5	82.2	79.9	73.3	66.3	58.8	50.7
3150	80.9	81.1	81.9	82.6	82.9	82.0	80.1	79.6	79.2	77.6	77.2	78.7	79.2	77.9	75.6	69.0	61.8	54.0	45.6
4000	76.1	76.3	77.2	77.9	78.2	77.2	75.3	74.7	74.4	72.7	72.4	74.2	74.7	73.3	70.9	64.3	56.8	48.6	39.6
5000	70.8	71.0	71.9	72.6	72.9	71.9	69.9	69.4	69.0	67.3	67.0	69.3	69.8	68.3	65.9	59.1	51.4	42.8	32.6
6300	64.8	65.1	65.9	66.6	66.9	65.9	63.9	63.4	63.1	61.4	61.4	64.1	64.7	63.1	60.7	53.7	45.3	35.4	23.9
8000	58.5	58.7	59.6	60.2	60.4	59.5	57.5	57.3	57.1	56.5	57.1	60.0	60.4	59.1	56.6	49.5	40.6	29.6	16.2
10000	51.3	51.5	52.4	52.8	53.0	52.0	50.0	51.4	51.4	51.7	52.4	55.6	56.0	54.6	52.2	44.5	34.2	22.7	6.8
12500	44.2	44.0	44.1	43.8	43.7	42.5	42.0	45.6	45.8	46.5	47.2	50.7	51.1	49.8	47.2	38.9	27.7	13.5	
16000	37.1	36.9	37.1	36.9	36.3	35.2	34.7	38.8	39.0	40.0	40.8	44.9	45.5	44.1	41.5	32.8	18.8	4.3	
20000	27.8	28.0	28.6	27.3	26.6	25.0	26.1	31.0	31.4	32.5	33.9	38.3	38.5	37.8	34.7	22.4	6.9		
25000	16.0	16.5	16.7	16.3	15.3	13.8	13.4	21.0	21.7	22.8	23.9	30.2	30.7	29.8	25.9	8.5			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52G AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 02
AIRCRAFT CODE 043
OPERATION CODE 06019
PROFILE VERSION A
18 DEC 75
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	119.3	119.4	120.2	121.3	121.8	121.3	119.2	119.5	118.2	117.4	116.4	116.2	116.4	114.1	111.2	104.1	97.3	90.4	83.0
250	116.9	117.1	117.9	119.0	119.5	119.1	116.9	117.2	115.9	114.9	113.9	113.9	114.0	111.7	109.1	101.9	95.1	88.1	80.7
315	114.5	114.7	115.7	116.8	117.3	116.8	114.5	114.8	113.5	112.4	111.4	111.4	111.6	109.4	106.9	99.8	92.9	85.7	78.3
400	112.6	112.2	113.3	114.4	114.9	114.4	112.1	112.3	111.0	109.7	108.8	108.8	109.0	107.1	104.6	97.5	90.7	83.3	75.9
500	109.3	109.7	110.8	111.9	112.4	112.0	109.7	109.7	108.6	106.9	106.0	106.0	106.3	104.7	102.3	95.2	88.3	80.8	73.3
630	106.6	107.1	108.3	109.4	109.9	109.4	107.1	106.8	106.0	104.1	103.0	103.1	103.5	102.1	99.8	92.9	85.7	78.2	70.7
800	103.9	104.4	105.6	106.7	107.2	106.8	104.4	103.8	103.3	101.4	100.3	100.2	100.8	99.5	97.0	90.3	82.9	75.4	68.1
1000	101.0	101.6	102.7	103.8	104.4	103.9	101.5	100.6	100.4	98.4	97.4	97.3	98.0	96.7	94.2	87.3	79.8	72.5	65.3
1250	98.0	98.5	99.7	100.8	101.3	100.9	98.4	97.5	97.4	95.3	94.3	94.2	94.9	93.7	91.0	83.9	76.6	69.6	62.3
1600	94.7	95.2	96.4	97.5	98.1	97.6	95.1	94.2	94.1	92.0	91.0	90.9	91.8	90.6	87.8	80.6	73.6	66.4	59.0
2000	91.1	91.7	92.9	94.0	94.6	94.1	91.6	90.6	90.5	88.4	87.4	87.7	88.5	87.3	84.5	77.3	70.3	63.1	55.4
2500	87.3	87.8	89.1	90.2	90.7	90.3	87.7	85.7	86.6	84.4	83.5	84.0	84.6	83.3	80.5	73.3	66.3	58.8	50.7
3150	83.0	83.5	84.8	85.9	86.5	86.0	83.4	82.4	82.3	80.1	79.1	79.9	80.2	79.1	76.2	69.0	61.8	54.0	45.6
4000	77.8	78.3	79.5	80.5	81.0	80.4	77.9	77.0	76.9	74.7	73.9	75.1	75.5	74.2	71.4	64.3	56.8	48.6	39.6
5000	72.0	72.5	73.6	74.5	75.0	74.3	71.8	71.1	70.9	68.8	68.1	70.0	70.4	69.0	66.3	59.1	51.4	42.8	32.6
6300	65.7	66.0	67.1	67.9	68.3	67.5	65.2	64.6	64.3	62.4	62.1	64.6	65.1	63.6	60.9	53.7	45.3	35.4	23.9
8000	58.9	59.2	60.1	60.8	61.1	60.3	58.1	57.9	57.7	57.0	57.5	60.3	60.7	59.3	56.7	49.5	40.6	29.6	16.2
10000	51.3	51.5	52.4	52.8	53.0	52.0	50.0	51.4	51.4	51.7	52.4	55.6	56.0	54.6	52.2	44.5	34.2	22.7	6.8
12500	44.2	44.0	44.1	43.8	43.7	42.5	42.0	45.6	45.8	46.5	47.2	50.7	51.1	49.8	47.2	38.9	27.7	13.5	
16000	37.1	36.9	37.1	36.9	36.3	35.2	34.7	38.8	39.0	40.0	40.8	44.9	45.5	44.1	41.5	32.8	18.8	4.3	
20000	27.8	28.0	28.6	27.3	26.6	25.0	26.1	31.0	31.4	32.5	33.9	38.3	38.5	37.8	34.7	22.4	6.9		
25000	16.6	16.5	16.7	16.3	15.3	13.8	13.4	21.0	21.7	22.8	23.9	30.2	30.7	29.6	25.9	8.5			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52G AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -9.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 02
AIRCRAFT CODE 043
OPERATION CODE 06019
PROFILE VERSION A
18 DEC 75
PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	103.3	103.3	103.8	104.5	104.8	103.7	102.1	101.7	100.6	99.8	99.2	100.2	100.6	98.3	95.7	88.9	82.3	75.6	68.9
250	101.1	101.0	101.6	102.3	102.6	101.5	99.8	99.4	98.3	97.4	96.9	98.0	98.4	96.1	93.6	86.9	80.2	73.5	66.9
315	98.7	98.7	99.3	100.0	100.3	99.2	97.5	97.1	96.0	95.0	94.5	95.7	96.2	93.9	91.5	84.8	78.1	71.4	64.8
400	96.4	96.4	97.0	97.7	98.0	96.9	95.1	94.7	93.6	92.6	92.1	93.4	93.9	91.7	89.3	82.7	76.0	69.3	62.7
500	93.9	93.9	94.6	95.2	95.5	94.5	92.7	92.2	91.2	90.0	89.6	91.0	91.5	89.4	87.0	80.5	73.8	67.1	60.5
630	91.3	91.4	92.1	92.7	93.1	92.0	90.1	89.6	88.6	87.4	87.1	88.6	89.1	87.1	84.7	78.2	71.5	64.9	58.2
800	88.7	88.7	89.4	90.1	90.4	89.4	87.4	86.9	86.0	84.7	84.5	86.1	86.7	84.6	82.3	75.8	69.2	62.5	55.8
1000	85.9	85.9	86.7	87.4	87.7	86.7	84.8	84.1	83.2	81.9	81.8	83.6	84.2	82.1	79.8	73.4	66.7	60.1	53.4
1250	83.0	83.0	83.9	84.5	84.8	83.8	81.7	81.1	80.4	79.1	79.1	81.0	81.7	79.5	77.1	70.8	64.2	57.5	50.8
1600	79.9	80.0	80.8	81.5	81.8	80.8	78.6	78.0	77.4	76.2	76.4	78.4	79.0	76.8	74.4	68.2	61.5	54.8	48.2
2000	76.7	76.7	77.6	78.2	78.5	77.5	75.3	74.8	74.3	73.2	73.5	75.7	76.3	74.0	71.5	65.4	58.7	52.1	45.4
2500	73.2	73.3	74.2	74.7	75.0	74.0	71.7	71.4	70.9	70.0	70.4	72.7	73.3	70.9	68.3	62.3	55.6	48.9	42.3
3150	69.5	69.5	70.5	70.9	71.2	70.1	67.8	67.7	67.3	66.5	67.0	69.4	70.0	67.4	64.8	58.9	52.2	45.5	38.9
4000	65.5	65.5	66.4	66.7	66.9	65.8	63.5	63.7	63.3	62.6	63.2	65.7	66.3	63.5	61.0	55.1	48.4	41.7	35.1
5000	61.6	60.9	61.8	62.0	62.2	61.0	58.8	59.3	58.9	58.3	58.9	61.6	62.1	59.3	56.8	50.9	44.2	37.6	30.9
6300	56.2	55.9	56.8	56.9	56.9	55.6	53.5	54.5	54.1	53.7	54.4	57.2	57.7	54.8	52.4	46.5	39.8	33.2	26.5
8000	51.2	50.9	51.6	51.4	51.3	49.9	48.2	50.0	49.6	49.6	50.4	53.3	53.8	51.0	48.6	42.8	36.2	29.5	22.8
10000	45.9	45.5	46.1	45.7	45.5	44.0	42.6	45.3	45.0	45.3	46.2	49.1	49.6	47.0	44.6	38.9	32.2	25.6	18.9
12500	40.3	40.0	40.3	39.9	39.5	38.2	37.2	40.4	40.2	40.7	41.6	44.6	45.0	42.7	40.4	34.7	28.0	21.3	14.7
16000	34.4	34.2	34.3	33.9	33.5	32.4	31.7	35.2	35.2	35.8	36.7	39.6	40.0	38.0	35.8	30.2	23.5	16.8	10.2
20000	28.2	28.1	28.1	27.8	27.4	26.5	26.1	29.6	29.7	30.4	31.3	34.2	34.6	33.1	31.1	25.4	18.7	12.0	5.4
25000	21.6	21.6	21.6	21.3	20.8	20.2	20.1	23.5	23.7	24.5	25.4	28.3	28.8	27.8	26.2	20.5	13.8	7.2	.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
8-52G AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 02
AIRCRAFT CODE 043
OPERATION CODE 06019
PROFILE VERSION A
18 DEC 75
PAGE G2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	105.4	105.7	106.7	107.8	108.4	107.7	105.3	104.5	103.7	102.3	101.1	101.4	101.7	99.4	96.3	88.9	82.3	75.6	68.9
250	103.2	103.5	104.5	105.6	106.1	105.5	103.1	102.2	101.4	99.9	98.8	99.1	99.5	97.2	94.2	86.9	80.2	73.5	66.9
315	100.8	101.2	102.2	103.3	103.9	103.2	100.8	99.9	99.1	97.5	96.5	96.9	97.2	95.0	92.1	84.8	78.1	71.4	64.8
400	98.5	98.8	99.8	101.0	101.5	100.9	98.4	97.5	96.7	95.1	94.0	94.5	94.9	92.8	89.9	82.7	76.0	69.3	62.7
500	96.0	96.3	97.4	98.6	99.1	98.5	95.9	95.0	94.3	92.5	91.6	92.2	92.6	90.5	87.6	80.5	73.8	67.1	60.5
630	93.4	93.8	94.9	96.0	96.6	96.0	93.4	92.4	91.7	89.9	89.0	89.7	90.2	88.2	85.3	78.2	71.5	64.9	58.2
800	90.8	91.2	92.3	93.4	94.0	93.4	90.7	89.7	89.1	87.2	86.4	87.3	87.8	85.8	82.9	75.8	69.2	62.5	55.8
1000	88.0	88.4	89.6	90.7	91.3	90.7	87.9	86.9	86.4	84.4	83.8	84.8	85.3	83.3	80.4	73.4	66.7	60.1	53.4
1250	85.1	85.5	86.7	87.8	88.4	87.8	85.0	83.9	83.5	81.6	81.1	82.2	82.7	80.6	77.7	70.8	64.2	57.5	50.8
1600	82.0	82.4	83.7	84.8	85.4	84.8	81.8	80.9	80.5	78.7	78.3	79.5	80.1	77.9	75.0	68.2	61.5	54.8	48.2
2000	78.8	79.2	80.5	81.5	82.1	81.5	78.5	77.7	77.4	75.7	75.4	76.8	77.4	75.1	72.1	65.4	58.7	52.1	45.4
2500	75.4	75.7	77.1	78.0	78.6	78.0	75.0	74.2	74.1	72.5	72.3	73.8	74.3	72.0	68.9	62.3	55.6	48.9	42.3
3150	71.7	72.0	73.3	74.2	74.8	74.1	71.1	70.6	70.4	69.0	68.9	70.5	71.0	68.5	65.4	58.9	52.2	45.5	38.9
4000	67.2	67.4	68.7	69.4	69.8	69.0	66.2	66.0	65.8	64.6	64.7	66.6	67.1	64.4	61.5	55.1	48.4	41.7	35.1
5000	62.3	62.4	63.5	64.0	64.3	63.4	60.7	61.0	60.7	59.8	60.1	62.3	62.8	60.0	57.2	50.9	44.2	37.6	30.9
6300	57.0	56.9	58.0	58.2	58.3	57.2	54.8	55.6	55.3	54.7	55.2	57.6	58.2	55.3	52.6	46.5	39.8	33.2	26.5
8000	51.6	51.3	52.2	52.1	52.1	50.7	48.8	50.5	50.2	50.1	50.8	53.5	54.0	51.3	48.8	42.8	36.2	29.5	22.8
10000	45.9	45.5	46.1	45.7	45.5	44.0	42.6	43.3	45.0	45.3	46.2	49.1	49.6	47.0	44.6	38.9	32.2	25.6	18.9
12500	40.3	40.0	40.3	39.9	39.5	38.2	37.2	40.4	40.2	40.7	41.6	44.6	45.0	42.7	40.4	34.7	28.0	21.3	14.7
16000	34.4	34.2	34.3	33.9	33.5	32.4	31.7	35.2	35.2	35.8	36.7	39.6	40.0	38.0	35.8	30.2	23.5	16.8	10.2
20000	28.2	28.1	28.1	27.8	27.4	26.5	26.1	29.6	29.7	30.4	31.3	34.2	34.6	33.1	31.1	25.4	18.7	12.0	5.4
25000	21.6	21.6	21.6	21.3	20.8	20.2	20.1	23.5	23.7	24.5	25.4	28.3	28.8	27.8	26.2	20.5	13.8	7.2	.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

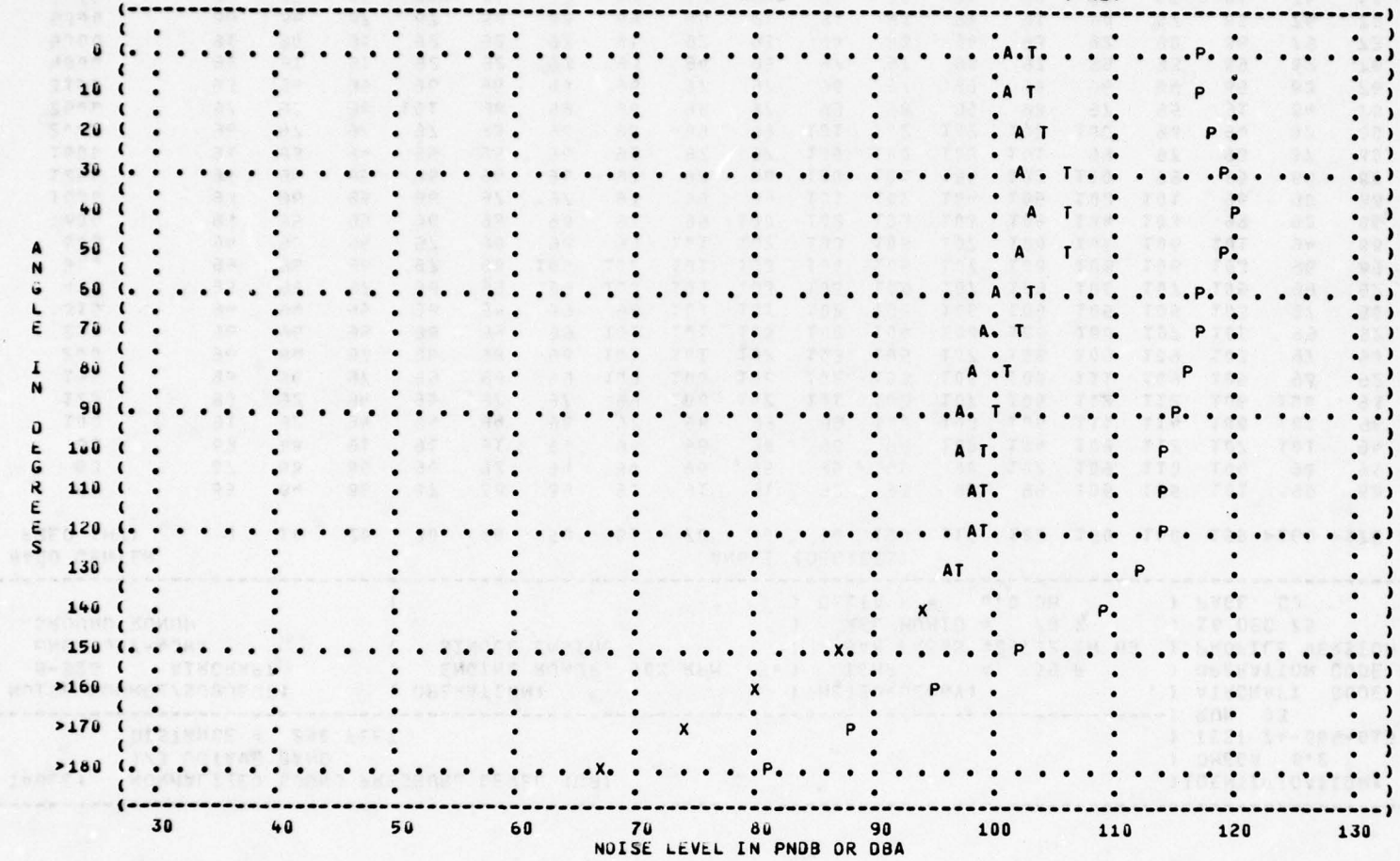
NOISE SOURCE/SUBJECT:
B-52G AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 02
AIRCRAFT CODE 043
OPERATION CODE 06019
PROFILE VERSION A
18 DEC 75
PAGE J2

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 03

NOISE SOURCE/SUBJECT:
B-52G AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

AIRCRAFT CODE 043
OPERATION CODE 01017
PROFILE VERSION A
18 DEC 75
PAGE C3

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
50	85	84	86	87	88	89	91	91	91	92	93	96	99	105	105	101	95	88	81
63	87	88	89	90	92	94	94	95	95	95	95	98	102	109	110	104	98	91	84
80	89	88	91	91	91	94	95	96	98	98	98	100	104	109	112	107	101	94	87
100	91	92	94	94	94	96	97	98	99	99	102	103	106	111	114	108	101	94	88
125	93	92	94	95	97	97	99	100	102	101	103	107	108	112	112	106	100	93	86
160	95	96	97	99	99	99	100	100	102	102	103	108	108	111	109	105	98	92	85
200	96	96	97	98	98	98	101	101	102	103	105	107	108	109	109	103	97	90	83
250	96	96	96	98	99	99	101	101	103	102	104	108	108	108	107	105	99	92	85
315	94	94	95	96	98	99	99	101	101	102	102	106	109	105	105	103	97	90	83
400	95	96	97	98	99	99	100	101	103	103	105	107	109	108	107	105	99	92	85
500	95	96	96	97	98	100	100	101	103	104	105	107	108	108	106	103	96	89	83
630	94	96	96	97	98	98	99	101	102	103	105	107	108	107	106	101	94	88	81
800	94	95	95	96	96	98	97	99	100	102	103	106	106	104	103	99	92	86	79
1000	93	96	95	96	97	97	97	99	99	101	102	104	105	102	101	96	90	83	76
1250	95	96	95	96	96	96	97	98	98	100	101	104	103	100	99	95	88	82	75
1600	91	93	94	95	96	96	96	97	97	100	100	103	101	99	97	93	87	80	73
2000	96	97	97	97	98	96	98	99	99	101	102	102	102	100	98	94	87	80	74
2500	97	97	96	101	98	99	98	98	97	99	98	99	98	97	95	91	84	78	71
3150	93	94	95	96	96	95	96	97	97	98	97	99	98	96	94	89	83	76	69
4000	90	91	91	92	92	93	93	94	95	97	97	98	97	96	93	89	82	76	69
5000	91	90	91	92	92	92	91	92	93	94	93	94	93	92	90	86	79	72	66
6300	86	86	87	87	88	88	89	90	91	91	91	91	91	90	87	83	76	70	63
8000	84	86	85	86	86	87	87	89	90	91	90	91	90	88	85	81	74	68	61
10000	78	79	79	80	80	81	81	82	84	86	85	86	86	83	81	76	69	62	56
OVERALL	107	108	108	110	110	110	111	112	113	114	115	116	119	120	120	116	109	103	96

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52G AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 03
AIRCRAFT CODE 043
OPERATION CODE 01017
PROFILE VERSION A
18 DEC 75
PAGE 03

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	121.8	122.2	122.7	124.8	123.8	124.2	124.3	125.1	125.5	126.7	127.2	129.0	129.0	128.3	127.4	124.0	117.3	110.6	103.9
250	119.6	120.0	120.5	122.6	121.6	122.0	122.1	122.9	123.3	124.6	125.1	126.8	126.9	126.2	125.3	121.9	115.2	108.5	101.8
315	117.3	117.8	118.3	120.3	119.4	119.8	119.8	120.6	121.0	122.3	122.8	124.6	124.7	124.1	123.1	119.7	113.1	106.3	99.6
400	115.6	115.4	115.9	118.0	117.0	117.5	117.5	118.2	118.7	120.0	120.5	122.3	122.4	121.9	120.9	117.5	110.9	104.1	97.4
500	112.5	113.0	113.5	115.5	114.6	115.0	115.1	115.8	116.2	117.6	118.2	119.9	120.1	119.5	118.7	115.3	108.6	101.9	95.1
630	110.0	110.4	110.9	113.0	112.1	112.5	112.6	113.2	113.7	115.1	115.7	117.5	117.7	117.2	116.4	113.0	106.3	99.5	92.7
800	107.3	107.8	108.3	110.3	109.4	109.8	109.9	110.6	111.0	112.5	113.1	114.9	115.2	114.8	113.9	110.6	103.9	97.1	90.2
1000	104.5	104.9	105.4	107.5	106.6	107.0	107.1	107.7	108.2	109.8	110.4	112.2	112.7	112.2	111.4	108.1	101.3	94.5	87.6
1250	101.4	101.8	102.4	104.4	103.5	104.0	104.1	104.7	105.3	106.8	107.4	109.3	110.0	109.5	108.7	105.4	98.6	91.7	84.8
1600	98.1	98.6	99.1	101.1	100.2	100.7	100.8	101.5	102.1	103.7	104.3	106.3	107.1	106.6	105.9	102.6	95.7	88.8	81.9
2000	94.5	95.0	95.5	97.5	96.6	97.1	97.3	98.0	99.0	100.3	100.9	103.2	104.0	103.5	102.8	99.5	92.7	85.7	78.8
2500	90.5	91.0	91.5	93.6	92.7	93.1	93.5	94.2	95.5	96.6	97.4	99.8	100.3	100.1	99.0	95.7	88.8	81.9	74.9
3150	86.0	86.6	87.0	89.1	88.3	88.7	89.3	90.2	91.5	92.6	93.5	95.8	96.6	96.1	95.1	91.4	84.5	77.5	70.6
4000	81.2	81.9	82.3	84.1	83.6	84.3	84.8	85.8	87.0	88.2	89.2	91.6	92.3	91.5	90.7	86.5	79.6	72.7	65.7
5000	76.6	76.8	77.1	78.6	78.0	79.4	80.0	81.0	82.3	83.5	84.5	86.9	87.6	86.8	85.9	81.8	74.8	67.8	60.7
6300	73.4	73.6	73.7	73.1	73.5	74.4	74.9	76.0	77.3	78.5	79.5	81.9	82.7	81.9	81.0	76.8	69.9	62.7	55.4
8000	69.1	67.2	67.4	68.7	69.2	70.2	70.8	71.8	73.3	74.4	75.4	77.9	78.8	78.2	77.1	73.1	66.0	58.8	51.3
10000	61.6	62.6	62.9	64.0	64.8	65.8	66.4	67.4	69.0	70.2	71.0	73.6	74.5	74.2	73.0	69.1	61.8	54.5	46.6
12500	56.6	57.7	57.9	58.9	60.0	61.0	61.7	62.7	64.4	65.5	66.4	69.1	69.8	69.8	68.7	64.7	57.3	49.7	41.0
16000	51.1	52.2	52.5	53.5	54.6	55.7	56.4	57.4	59.2	60.3	61.3	64.1	64.8	65.1	64.0	59.9	52.3	44.2	34.5
20000	44.8	45.9	46.4	47.5	48.7	49.9	50.6	51.7	53.6	54.7	55.7	58.5	59.4	59.9	58.8	54.4	46.4	37.5	27.6
25000	37.2	38.4	38.7	40.1	41.5	42.8	43.8	44.9	47.1	48.1	49.3	52.3	53.3	53.8	52.9	48.6	39.8	28.9	15.6

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52G AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 03
AIRCRAFT CODE 043
OPERATION CODE 01017
PROFILE VERSION A
18 DEC 75
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	122.9	122.2	122.7	126.4	123.8	124.2	124.3	125.1	125.5	126.7	127.2	129.0	129.0	128.3	127.4	124.0	117.3	110.6	103.9
250	120.7	120.0	120.5	124.2	121.6	122.0	122.1	122.9	123.3	124.6	125.1	126.8	126.9	126.2	125.3	121.9	115.2	108.5	101.8
315	118.4	117.8	118.3	122.0	119.4	119.8	119.8	120.6	121.0	122.3	122.8	124.6	124.7	124.1	123.1	119.7	113.1	106.3	99.6
400	116.1	115.4	115.9	119.6	117.0	117.5	117.5	118.2	118.7	120.0	120.5	122.3	122.4	121.9	120.9	117.5	110.9	104.1	97.4
500	113.6	113.0	113.5	117.2	114.6	115.0	115.1	115.8	116.2	117.6	118.2	119.9	120.1	119.5	118.7	115.3	108.6	101.9	95.1
630	111.1	110.4	110.9	114.6	112.1	112.5	112.6	113.2	113.7	115.1	115.7	117.5	117.7	117.2	116.4	113.0	106.3	99.5	92.7
800	108.4	107.8	108.3	112.0	109.4	109.8	109.9	110.6	111.0	112.5	113.1	114.9	115.2	114.8	113.9	110.6	103.9	97.1	90.2
1000	105.5	104.9	105.4	109.1	106.6	107.0	107.1	107.7	108.2	109.8	110.4	112.2	112.7	112.2	111.4	108.1	101.3	94.5	87.6
1250	102.5	101.8	102.4	106.1	103.5	104.0	104.1	104.7	105.3	106.8	107.4	109.3	110.0	109.5	108.7	105.4	98.6	91.7	84.8
1600	99.2	98.6	99.1	102.8	100.2	100.7	100.8	101.5	102.1	103.7	104.3	106.3	107.1	106.6	105.9	102.6	95.7	88.8	81.9
2000	95.5	95.0	95.5	99.2	96.6	97.1	97.3	98.0	98.6	100.3	100.9	103.2	104.0	103.5	102.8	99.5	92.7	85.7	78.8
2500	91.6	91.0	91.5	95.2	92.7	93.1	93.5	94.2	95.5	96.6	97.4	99.8	100.3	100.1	99.0	95.7	88.8	81.9	74.9
3150	87.1	86.6	87.0	90.7	88.3	88.7	89.3	90.2	91.5	92.6	93.5	95.8	96.6	96.1	95.1	91.4	84.5	77.5	70.6
4000	82.0	81.9	82.3	85.4	83.0	84.3	84.6	85.8	87.0	88.2	89.2	91.6	92.3	91.5	90.7	86.5	79.6	72.7	65.7
5000	76.6	76.8	77.1	79.5	78.6	79.4	80.0	81.0	82.3	83.5	84.5	86.9	87.6	86.8	85.9	81.8	74.8	67.8	60.7
6300	70.8	71.6	71.7	73.8	73.5	74.4	74.9	76.0	77.3	78.5	79.5	81.9	82.7	81.9	81.0	76.6	69.9	62.7	55.4
8000	66.3	67.2	67.4	69.0	69.2	70.2	70.8	71.8	73.3	74.4	75.4	77.9	78.8	78.2	77.1	73.1	66.0	58.8	51.3
10000	61.6	62.6	62.9	64.0	64.8	65.8	66.4	67.4	69.0	70.2	71.0	73.6	74.5	74.2	73.0	69.1	61.8	54.5	46.6
12500	56.6	57.7	57.9	58.9	60.0	61.0	61.7	62.7	64.4	65.5	66.4	69.1	69.6	69.8	68.7	64.7	57.3	49.7	41.0
16000	51.1	52.2	52.5	53.5	54.6	55.7	56.4	57.4	59.2	60.3	61.3	64.1	64.8	65.1	64.0	59.9	52.3	44.2	34.5
20000	44.6	45.9	46.4	47.5	48.7	49.9	50.6	51.7	53.6	54.7	55.7	58.5	59.4	59.9	58.8	54.4	46.4	37.5	27.4
25000	37.2	38.4	38.7	40.1	41.5	42.8	43.8	44.9	47.1	48.1	49.3	52.3	53.3	53.8	52.9	48.6	39.8	28.9	15.6

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-525 AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 03
AIRCRAFT CODE 043
OPERATION CODE 01017
PROFILE VERSION A
18 DEC 75
PAGE F3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	107.4	108.3	108.5	110.0	109.7	110.1	110.4	111.3	112.0	113.5	114.3	116.4	116.6	115.1	114.0	110.4	103.7	97.1	90.4
250	105.3	106.1	106.3	107.8	107.5	107.9	108.3	109.2	109.9	111.4	112.1	114.3	114.5	113.1	112.0	108.3	101.6	95.0	88.3
315	103.0	103.9	104.1	105.6	105.4	105.7	106.1	107.0	107.7	109.2	110.0	112.2	112.4	111.0	109.9	106.2	99.6	92.9	86.2
400	100.8	101.7	101.8	103.4	103.1	103.5	103.9	104.8	105.5	107.0	107.8	110.0	110.3	108.8	107.8	104.1	97.5	90.8	84.1
500	98.5	99.4	99.5	101.0	100.8	101.2	101.6	102.5	103.3	104.8	105.6	107.8	108.1	106.5	105.6	102.0	95.3	88.6	82.0
630	96.1	97.0	97.2	98.7	98.5	98.9	99.3	100.2	101.0	102.5	103.3	105.5	105.8	104.4	103.3	99.7	93.1	86.4	79.7
800	93.6	94.6	94.7	96.2	96.0	96.5	96.9	97.8	98.6	100.1	101.0	103.2	103.6	102.1	101.1	97.5	90.8	84.1	77.5
1000	91.1	92.1	92.2	93.6	93.5	94.0	94.4	95.4	96.2	97.7	98.6	100.8	101.2	99.7	98.7	95.1	88.5	81.8	75.1
1250	88.4	89.5	89.5	90.9	90.9	91.4	91.8	92.8	93.6	95.2	96.1	98.3	98.7	97.3	96.2	92.7	86.0	79.3	72.7
1600	85.6	86.7	86.8	88.1	88.2	88.7	89.1	90.1	91.0	92.6	93.5	95.8	96.2	94.7	93.7	90.1	83.5	76.8	70.1
2000	82.7	83.9	83.9	85.2	85.4	85.9	86.3	87.4	88.4	89.8	90.8	93.1	93.6	92.1	91.1	87.5	80.9	74.2	67.5
2500	79.5	80.8	80.7	82.0	82.3	82.8	83.2	84.4	85.4	86.9	87.9	90.2	90.6	89.2	88.1	84.5	77.8	71.1	64.5
3150	76.1	77.4	77.3	78.6	78.9	79.5	79.9	81.1	82.1	83.6	84.7	87.0	87.4	85.9	84.9	81.1	74.4	67.7	61.1
4000	72.5	73.8	73.6	74.8	75.2	75.8	76.2	77.4	78.4	80.0	81.1	83.4	83.8	82.2	81.2	77.3	70.7	64.0	57.3
5000	68.2	69.7	69.4	70.6	71.0	71.7	72.0	73.3	74.3	75.9	77.0	79.3	79.8	78.1	77.1	73.1	66.4	59.8	53.1
6300	63.7	65.3	64.9	66.1	66.6	67.3	67.6	68.9	69.9	71.5	72.6	75.0	75.4	73.8	72.8	68.7	62.0	55.3	48.7
8000	59.5	61.0	60.8	61.9	62.4	63.2	63.6	64.9	66.0	67.5	68.7	71.0	71.5	70.0	69.0	65.0	58.3	51.7	45.0
10000	55.0	56.5	56.3	57.4	58.0	58.9	59.2	60.5	61.8	63.2	64.4	66.8	67.4	66.0	65.0	61.0	54.4	47.7	41.0
12500	50.1	51.6	51.5	52.6	53.3	54.2	54.6	55.8	57.3	58.5	59.7	62.1	62.8	61.6	60.6	56.7	50.0	43.4	36.7
16000	44.9	46.2	46.2	47.4	48.1	49.1	49.5	50.7	52.3	53.4	54.6	57.0	57.8	56.8	55.7	52.0	45.3	38.7	32.0
20000	39.2	40.4	40.6	41.7	42.5	43.5	44.0	45.2	46.8	47.8	49.0	51.4	52.3	51.5	50.5	46.9	40.2	33.5	26.9
25000	33.1	34.2	34.4	35.6	36.5	37.4	38.0	39.1	40.8	41.7	42.8	45.3	46.3	45.8	44.9	41.3	34.7	28.0	21.3

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 03
AIRCRAFT CODE 043
OPERATION CODE 01017
PROFILE VERSION A
18 DEC 75
PAGE G3

NOISE SOURCE/SUBJECT:
B-52G AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	108.5	108.3	108.5	111.7	109.7	110.1	110.4	111.3	112.0	113.5	114.3	116.4	116.6	115.1	114.0	110.4	103.7	97.1	90.4
250	106.3	106.1	106.3	109.5	107.5	107.9	108.3	109.2	109.9	111.4	112.1	114.3	114.5	113.1	112.0	108.3	101.6	95.0	88.3
315	104.1	103.9	104.1	107.3	105.4	105.7	106.1	107.0	107.7	109.2	110.0	112.2	112.4	111.0	109.9	106.2	99.6	92.9	86.2
400	101.9	101.7	101.8	105.0	103.1	103.5	103.9	104.8	105.5	107.0	107.8	110.0	110.3	108.8	107.8	104.1	97.5	90.8	84.1
500	99.6	99.4	99.5	102.7	100.8	101.2	101.6	102.5	103.3	104.8	105.6	107.8	108.1	106.5	105.6	102.0	95.3	88.6	82.0
630	97.2	97.0	97.2	100.3	98.5	98.9	99.3	100.2	101.0	102.5	103.3	105.5	105.8	104.4	103.3	99.7	93.1	86.4	79.7
800	94.7	94.6	94.7	97.8	96.0	96.5	96.9	97.8	98.6	100.1	101.0	103.2	103.6	102.1	101.1	97.5	90.8	84.1	77.5
1000	92.1	92.1	92.2	95.3	93.5	94.0	94.4	95.4	96.2	97.7	98.6	100.8	101.2	99.7	98.7	95.1	88.5	81.8	75.1
1250	89.5	89.5	89.5	92.6	90.9	91.4	91.8	92.8	93.6	95.2	96.1	98.3	98.7	97.3	96.2	92.7	86.0	79.3	72.7
1600	86.7	86.7	86.8	89.8	88.2	88.7	89.1	90.1	91.0	92.6	93.5	95.8	96.2	94.7	93.7	90.1	83.5	76.8	70.1
2000	83.6	83.9	83.9	86.8	85.4	85.9	86.3	87.4	88.4	89.8	90.8	93.1	93.6	92.1	91.1	87.5	80.9	74.2	67.5
2500	80.6	80.8	80.7	83.7	82.3	82.8	83.2	84.4	85.4	86.9	87.9	90.2	90.6	89.2	88.1	84.5	77.8	71.1	64.5
3150	77.2	77.4	77.3	80.2	78.9	79.5	79.9	81.1	82.1	83.6	84.7	87.0	87.4	85.9	84.9	81.1	74.4	67.7	61.1
4000	73.2	73.8	73.6	76.1	75.2	75.8	76.2	77.4	78.4	80.0	81.1	83.4	83.8	82.2	81.2	77.3	70.7	64.0	57.3
5000	68.8	69.7	69.4	71.6	71.0	71.7	72.0	73.3	74.3	75.9	77.0	79.3	79.8	78.1	77.1	73.1	66.4	59.8	53.1
6300	64.1	65.3	64.9	66.7	66.6	67.3	67.6	68.9	69.9	71.5	72.6	75.0	75.4	73.8	72.8	68.7	62.0	55.3	48.7
8000	59.7	61.0	60.8	62.2	62.4	63.2	63.0	64.9	66.0	67.5	68.7	71.0	71.5	70.0	69.0	65.0	58.3	51.7	45.0
10000	55.0	56.5	56.3	57.4	58.0	58.9	59.2	60.5	61.8	63.2	64.4	66.8	67.4	66.0	65.0	61.0	54.4	47.7	41.0
12500	50.1	51.6	51.5	52.6	53.3	54.2	54.6	55.8	57.3	58.5	59.7	62.1	62.8	61.5	60.6	56.7	50.0	43.4	36.7
16000	44.9	46.2	46.2	47.4	48.1	49.1	49.5	50.7	52.3	53.4	54.6	57.0	57.8	56.8	55.7	52.0	45.3	38.7	32.0
20000	39.2	40.4	40.6	41.7	42.5	43.5	44.0	45.2	46.8	47.8	49.0	51.4	52.3	51.5	50.5	46.9	40.2	33.5	26.9
25000	33.1	34.2	34.4	35.6	36.5	37.4	38.0	39.1	40.8	41.7	42.8	45.3	46.3	45.8	44.9	41.3	34.7	28.0	21.3

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

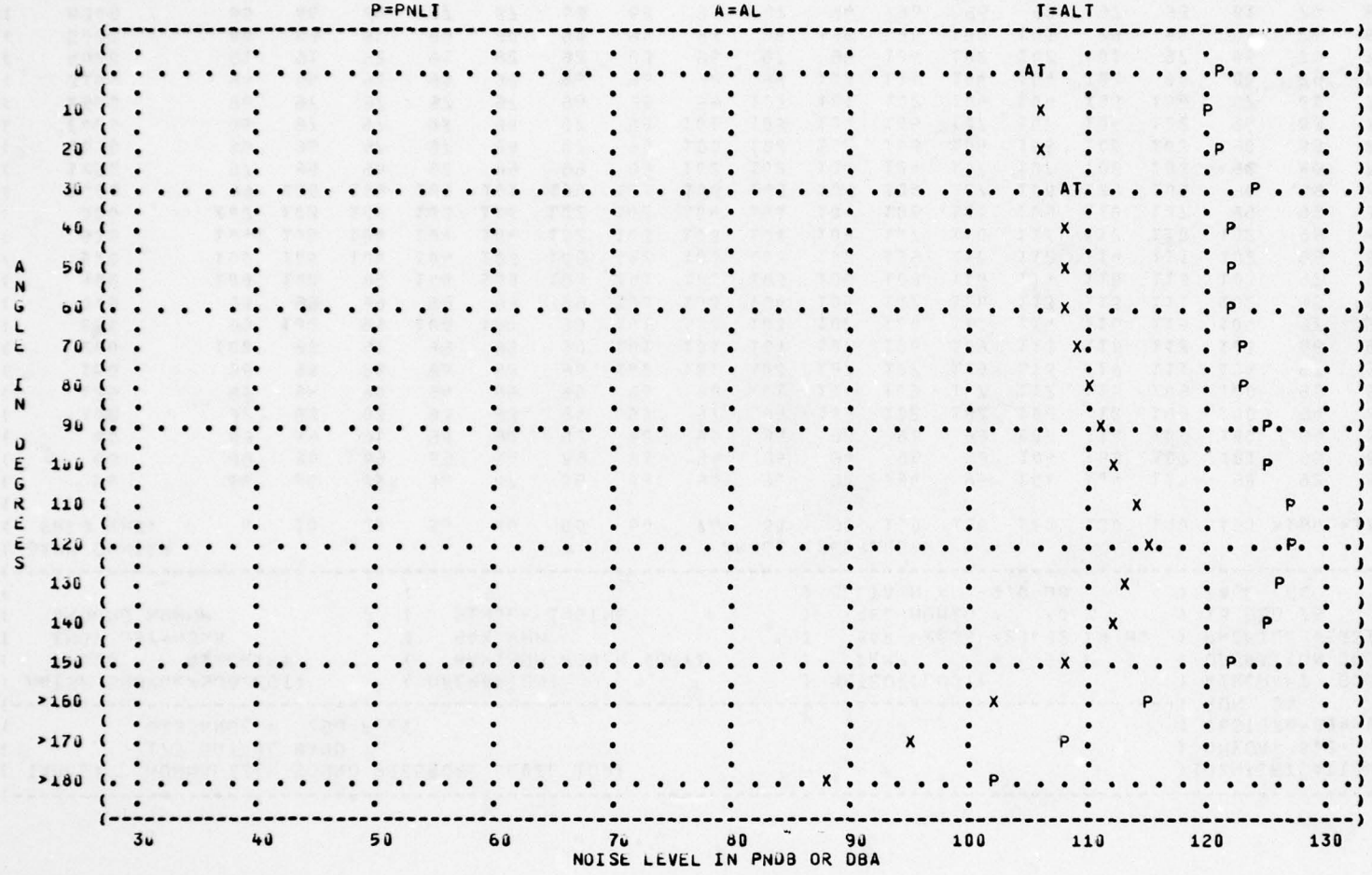
NOISE SOURCE/SUBJECT:
B-52G AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 03
AIRCRAFT CODE 043
OPERATION CODE 01017
PROFILE VERSION A
18 DEC 75
PAGE J3

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
B-52G AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
MAXIMUM POWER (DRY)
94% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 04
AIRCRAFT CODE 043
OPERATION CODE 06031
PROFILE VERSION A
18 DEC 75
PAGE C4

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
50	86	86	85	86	87	86	89	90	90	92	94	96	101	104	105	98	92	85	78
63	89	88	89	89	90	89	91	94	95	94	96	99	104	108	107	101	95	88	81
80	89	89	91	90	90	92	92	95	95	96	98	99	107	110	109	100	94	87	80
100	92	93	93	93	93	94	95	97	99	100	102	102	109	112	109	100	94	87	80
125	95	96	95	94	95	95	95	98	102	104	105	107	112	115	109	100	93	87	80
160	98	98	98	96	98	98	100	101	103	107	107	109	113	119	111	104	97	90	84
200	100	98	99	99	99	99	101	101	104	107	108	109	113	118	113	103	96	90	83
250	99	100	99	100	100	99	101	103	103	107	110	111	114	116	115	104	97	90	84
315	98	99	99	99	99	99	100	103	104	105	107	110	113	113	111	102	95	88	82
400	100	100	99	100	100	100	101	102	103	105	108	110	114	116	113	103	97	90	83
500	105	105	104	104	103	102	102	103	103	105	109	110	112	114	111	102	96	89	82
630	104	105	104	104	104	102	103	103	104	105	107	110	112	112	110	102	96	89	82
800	102	102	102	103	103	102	102	104	103	104	106	108	109	110	107	99	92	86	79
1000	99	100	100	100	101	100	101	103	103	104	104	107	108	108	105	96	89	82	76
1250	97	98	98	98	99	99	99	102	102	103	104	107	107	106	103	92	86	79	72
1600	95	96	97	97	98	97	98	100	102	102	103	105	105	105	103	90	83	77	70
2000	96	97	97	97	98	97	99	101	103	104	105	107	107	106	102	90	83	76	70
2500	96	97	97	97	97	96	98	99	100	101	102	104	104	103	100	87	80	74	67
3150	94	95	95	95	95	95	96	98	99	100	101	104	104	102	98	86	79	73	66
4000	91	91	92	91	92	92	93	96	97	99	100	102	102	101	97	85	78	71	65
5000	88	89	90	90	90	90	91	93	95	96	98	100	100	99	95	83	76	69	63
6300	85	86	86	87	87	88	89	91	92	94	96	98	99	97	93	81	74	67	61
8000	83	83	83	84	85	85	86	89	91	92	94	97	97	96	92	79	72	66	59
10000	78	78	79	78	79	80	81	84	87	89	91	95	96	93	88	75	68	62	55
OVERALL	112	112	112	112	112	111	112	114	115	117	119	121	123	126	122	113	106	100	93

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 04
AIRCRAFT CODE 043
OPERATION CODE 06031
PROFILE VERSION A
18 DEC 75
PAGE D4

NOISE SOURCE/SUBJECT:
B-52G AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
MAXIMUM POWER (DRY)
94% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -9.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	123.1	123.8	123.8	123.8	124.1	123.6	124.7	126.5	127.7	129.0	130.5	132.7	134.0	134.9	131.6	121.6	114.9	108.2	101.5
250	120.9	121.6	121.6	121.6	121.9	121.4	122.5	124.3	125.5	126.8	128.3	130.5	131.8	132.7	129.5	119.5	112.8	106.1	99.3
315	118.6	119.4	119.4	119.4	119.7	119.2	120.3	122.1	123.3	124.6	126.1	128.3	129.6	130.5	127.4	117.4	110.7	103.9	97.1
400	116.3	117.1	117.0	117.1	117.4	116.9	118.0	119.8	121.0	122.3	123.8	126.0	127.4	128.4	125.2	115.2	108.5	101.7	94.9
500	114.6	114.7	114.6	114.7	115.0	114.5	115.6	117.4	118.6	119.9	121.4	123.6	125.1	126.1	122.9	112.9	106.2	99.5	92.6
630	111.7	112.2	112.1	112.2	112.4	111.9	113.0	114.9	116.1	117.4	118.9	121.1	122.7	123.7	120.5	110.6	103.9	97.1	90.2
800	109.2	109.7	109.5	109.5	109.8	109.3	110.4	112.3	113.5	114.8	116.3	118.5	120.2	121.3	118.1	108.2	101.5	94.6	87.7
1000	106.7	107.2	106.8	106.8	107.0	106.5	107.6	109.6	110.8	112.1	113.6	115.7	117.6	118.7	115.6	105.7	98.9	92.1	85.1
1250	104.0	104.5	104.1	104.0	104.2	103.5	104.7	106.7	107.8	109.1	110.6	112.8	114.9	116.0	112.9	103.1	96.2	89.3	82.4
1600	101.1	101.6	101.2	101.2	101.3	100.4	101.5	103.5	104.7	105.9	107.5	109.7	112.0	113.2	110.1	100.2	93.4	86.5	79.6
2000	98.1	98.7	98.1	98.1	98.2	97.3	98.3	100.1	101.2	102.5	104.3	106.3	109.0	110.2	107.1	97.2	90.3	83.4	76.5
2500	94.9	95.4	94.8	94.8	94.9	94.0	94.9	96.4	97.5	98.8	100.9	102.8	105.2	106.4	103.3	93.4	86.5	79.6	72.7
3150	91.6	91.6	91.3	91.0	91.3	90.3	91.2	92.5	93.3	94.6	96.9	98.9	100.9	102.2	99.1	89.5	82.7	75.8	68.8
4000	86.8	87.3	87.2	86.9	87.2	86.1	87.0	88.4	88.9	90.1	92.5	94.6	96.5	97.7	94.6	85.3	78.4	71.5	64.4
5000	82.2	82.7	82.5	82.2	82.5	81.5	82.4	84.0	84.1	85.4	87.8	89.9	91.7	93.0	89.9	80.6	73.7	66.7	59.5
6300	77.3	77.9	77.7	77.4	77.6	76.6	77.4	79.1	79.1	80.4	82.8	85.0	86.8	88.1	85.0	75.8	68.8	61.7	54.4
8000	73.3	73.8	73.5	73.2	73.5	72.4	73.2	74.7	74.9	76.3	78.8	80.9	82.8	84.4	81.2	71.9	64.9	57.6	50.2
10000	69.1	69.6	69.1	68.8	69.0	67.9	68.8	70.0	70.4	71.9	74.6	76.5	78.5	80.4	77.2	67.8	60.6	53.2	45.4
12500	64.5	65.0	64.2	64.2	64.1	63.0	63.8	64.9	65.5	67.3	70.1	71.9	74.0	76.1	72.9	63.3	56.1	48.5	40.0
16000	59.4	59.9	59.0	59.0	58.7	57.7	58.3	59.6	60.3	62.2	65.0	67.0	69.2	71.4	68.2	58.4	50.9	42.7	34.0
20000	53.7	54.2	53.2	53.2	52.9	51.8	52.4	53.8	54.5	56.6	59.5	61.4	63.7	66.2	62.9	53.0	44.9	36.3	26.3
25000	47.3	47.7	46.7	46.6	46.3	45.1	45.6	47.3	48.0	50.2	53.3	55.2	58.0	60.5	57.0	46.7	37.7	28.0	15.4

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 04

NOISE SOURCE/SUBJECT:
B-52G AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
MAXIMUM POWER (DRY)
94% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

AIRCRAFT CODE 043
OPERATION CODE 06031
PROFILE VERSION A
18 DEC 75
PAGE E4

DISTANCE	ANGLE (DEGREES)																		
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	123.1	123.6	123.8	123.8	124.1	123.6	124.7	126.5	127.7	129.0	130.5	132.7	134.0	134.9	131.6	121.6	114.9	108.2	101.5
250	120.9	121.6	121.6	121.6	121.9	121.4	122.5	124.3	125.5	126.8	128.3	130.5	131.8	132.7	129.5	119.5	112.8	106.1	99.3
315	118.6	119.4	119.4	119.4	119.7	119.2	120.3	122.1	123.3	124.6	126.1	128.3	129.6	130.6	127.4	117.4	110.7	103.9	97.1
400	116.3	117.1	117.0	117.1	117.4	116.9	118.0	119.8	121.0	122.3	123.8	126.0	127.4	128.4	125.2	115.2	108.5	101.7	94.9
500	114.6	114.7	114.6	114.7	115.0	114.5	115.6	117.4	118.6	119.9	121.4	123.6	125.1	126.1	122.9	112.9	106.2	99.5	92.6
630	111.7	112.2	112.1	112.2	112.4	111.9	113.0	114.9	116.1	117.4	118.9	121.1	122.7	123.7	120.5	110.6	103.9	97.1	90.2
800	109.2	109.7	109.5	109.5	109.8	109.3	110.4	112.3	113.5	114.8	116.3	118.5	120.2	121.3	118.1	108.2	101.5	94.6	87.7
1000	106.7	107.2	106.8	106.8	107.0	106.5	107.6	109.6	110.8	112.1	113.6	115.7	117.6	118.7	115.6	105.7	98.9	92.1	85.1
1250	104.0	104.5	104.1	104.0	104.2	103.5	104.7	106.7	107.8	109.1	110.6	112.8	114.9	116.0	112.9	103.1	96.2	89.3	82.4
1600	101.1	101.6	101.2	101.2	101.3	100.4	101.5	103.5	104.7	105.9	107.5	109.7	112.0	113.2	110.1	100.2	93.4	86.5	79.6
2000	98.1	98.7	98.1	98.1	98.2	97.3	98.3	100.1	101.2	102.5	104.3	106.3	109.0	110.2	107.1	97.2	90.3	83.4	76.5
2500	94.9	95.4	94.8	94.8	94.9	94.0	94.9	96.4	97.5	98.8	100.9	102.8	105.2	106.4	103.3	93.4	86.5	79.6	72.7
3150	91.0	91.6	91.3	91.0	91.3	90.3	91.2	92.5	93.3	94.6	96.9	98.9	100.9	102.2	99.1	89.5	82.7	75.8	68.8
4000	86.8	87.3	87.2	86.9	87.2	86.1	87.0	88.4	88.9	90.1	92.5	94.6	96.5	97.7	94.6	85.3	78.4	71.5	64.4
5000	82.2	82.7	82.5	82.2	82.5	81.5	82.4	84.0	84.1	85.4	87.8	89.9	91.7	93.0	89.9	80.6	73.7	66.7	59.5
6300	77.3	77.9	77.7	77.4	77.6	76.6	77.4	79.1	79.1	80.4	82.8	85.0	86.8	88.1	85.0	75.8	68.8	61.7	54.4
8000	73.3	73.8	73.5	73.2	73.5	72.4	73.2	74.7	74.9	76.3	78.8	80.9	82.8	84.4	81.2	71.9	64.9	57.6	50.2
10000	69.1	69.6	69.1	68.8	69.0	67.9	68.8	70.0	70.4	71.9	74.6	76.5	78.5	80.4	77.2	67.8	60.6	53.2	45.4
12500	64.5	65.0	64.2	64.2	64.1	63.0	63.8	64.9	65.5	67.3	70.1	71.9	74.0	76.1	72.9	63.3	56.1	48.5	40.0
16000	59.4	59.9	59.0	59.0	58.7	57.7	58.3	59.6	60.3	62.2	65.0	67.0	69.2	71.4	68.2	58.4	50.9	42.7	34.0
20000	53.7	54.2	53.2	53.2	52.9	51.8	52.4	53.8	54.5	56.6	59.5	61.4	63.7	66.2	62.9	53.0	44.9	36.3	26.3
25000	47.3	47.7	46.7	46.6	46.3	45.1	45.6	47.3	48.0	50.2	53.3	55.2	58.0	60.5	57.0	46.7	37.7	28.0	15.4

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (dBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52G AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
MAXIMUM POWER (DRY)
94% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 04
AIRCRAFT CODE 043
OPERATION CODE 06031
PROFILE VERSION A
18 DEC 75
PAGE F4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	111.4	112.1	111.9	111.9	112.2	111.4	112.2	114.0	114.6	115.8	117.5	119.8	121.1	121.7	118.7	109.2	102.6	95.9	89.2
250	109.3	110.0	109.8	109.8	110.1	109.3	110.1	111.9	112.5	113.7	115.3	117.6	118.9	119.6	116.6	107.2	100.5	93.9	87.2
315	107.2	107.9	107.7	107.6	107.9	107.1	108.0	109.8	110.3	111.5	113.2	115.5	116.8	117.5	114.5	105.1	98.4	91.8	85.1
400	105.1	105.7	105.5	105.5	105.8	105.0	105.8	107.6	108.1	109.3	111.0	113.3	114.7	115.4	112.4	103.0	96.3	89.7	83.0
500	102.9	103.5	103.3	103.3	103.6	102.8	103.6	105.3	105.8	107.0	108.7	111.1	112.4	113.2	110.2	100.9	94.2	87.5	80.9
630	100.7	101.3	101.1	101.0	101.3	100.5	101.3	103.1	103.5	104.7	106.5	108.8	110.2	111.0	108.0	98.7	92.0	85.3	78.7
800	98.4	99.0	98.8	98.7	99.0	98.2	99.0	100.7	101.2	102.4	104.1	106.4	107.9	108.6	105.7	96.4	89.8	83.1	76.4
1000	96.1	96.7	96.5	96.4	96.7	95.8	96.6	98.3	98.7	99.9	101.7	104.0	105.5	106.3	103.4	94.1	87.5	80.8	74.1
1250	93.7	94.3	94.0	93.9	94.2	93.3	94.1	95.8	96.2	97.3	99.2	101.5	103.0	103.8	100.9	91.7	85.1	78.4	71.7
1600	91.2	91.8	91.5	91.4	91.7	90.8	91.5	93.2	93.5	94.7	96.6	98.9	100.4	101.3	98.4	89.3	82.6	76.0	69.3
2000	88.6	89.3	88.9	88.8	89.1	88.1	88.8	90.5	90.7	91.9	93.9	96.2	97.7	98.7	95.8	86.7	80.1	73.4	66.7
2500	85.9	86.5	86.1	86.0	86.2	85.3	86.0	87.6	87.7	88.9	90.9	93.2	94.7	95.6	92.8	83.8	77.2	70.5	63.8
3150	82.8	83.4	83.1	82.9	83.2	82.2	82.8	84.4	84.5	85.7	87.6	90.0	91.4	92.3	89.4	80.6	74.0	67.3	60.6
4000	79.3	79.9	79.6	79.4	79.7	78.7	79.3	80.9	80.9	82.0	83.9	86.3	87.7	88.5	85.7	77.0	70.3	63.7	57.0
5000	75.3	75.9	75.6	75.5	75.7	74.7	75.3	76.9	76.8	78.0	79.8	82.3	83.5	84.3	81.5	72.9	66.2	59.5	52.9
6300	71.0	71.6	71.3	71.2	71.5	70.4	71.0	72.6	72.5	73.6	75.4	77.9	79.1	79.9	77.1	68.5	61.8	55.2	48.5
8000	67.2	67.8	67.4	67.3	67.5	66.4	67.0	68.5	68.3	69.5	71.5	73.9	75.2	76.2	73.4	64.9	58.2	51.5	44.9
10000	63.1	63.7	63.2	63.1	63.2	62.1	62.7	64.1	63.9	65.1	67.3	69.6	71.1	72.2	69.4	60.9	54.2	47.6	40.9
12500	58.5	59.1	58.8	58.4	58.5	57.4	57.9	59.2	59.0	60.3	62.7	65.0	66.6	67.3	65.0	56.5	49.9	43.2	36.5
16000	53.5	54.1	53.4	53.3	53.3	52.1	52.6	53.8	53.8	55.2	57.7	59.9	61.7	63.2	60.3	51.7	45.1	38.4	31.7
20000	47.9	48.4	47.7	47.6	47.5	46.3	46.8	47.9	48.0	49.5	52.2	54.3	56.3	58.0	55.1	46.4	39.7	33.1	26.4
25000	41.6	42.1	41.3	41.2	41.0	39.9	40.3	41.4	41.7	43.4	46.2	48.2	50.5	52.3	49.3	40.5	33.9	27.2	20.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 04
AIRCRAFT CODE 043
OPERATION CODE 06031
PROFILE VERSION A
18 DEC 75
PAGE G4

NOISE SOURCE/SUBJECT:
B-52G AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
MAXIMUM POWER (DRY)
94% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	111.4	112.1	111.9	111.9	112.2	111.4	112.2	114.0	114.6	115.8	117.5	119.8	121.1	121.7	118.7	109.2	102.6	95.9	89.2
250	109.3	110.0	109.0	109.8	110.1	109.3	110.1	111.9	112.5	113.7	115.3	117.6	118.9	119.5	116.6	107.2	100.5	93.9	87.2
315	107.2	107.9	107.7	107.6	107.9	107.1	108.0	109.8	110.3	111.5	113.2	115.5	116.8	117.5	114.5	105.1	98.4	91.8	85.1
400	105.1	105.7	105.5	105.5	105.8	105.0	105.8	107.6	108.1	109.3	111.0	113.3	114.7	115.4	112.4	103.0	96.3	89.7	83.0
500	102.9	103.5	103.3	103.3	103.6	102.8	103.6	105.3	105.8	107.0	108.7	111.1	112.4	113.2	110.2	100.9	94.2	87.5	80.9
630	100.7	101.3	101.1	101.0	101.3	100.5	101.3	103.1	103.5	104.7	106.5	108.8	110.2	111.0	108.0	98.7	92.0	85.3	78.7
800	98.4	99.0	98.8	98.7	99.0	98.2	99.0	100.7	101.2	102.4	104.1	106.4	107.9	108.6	105.7	96.4	89.8	83.1	76.4
1000	96.1	96.7	96.5	96.4	96.7	95.8	96.6	98.3	98.7	99.9	101.7	104.0	105.5	106.3	103.4	94.1	87.5	80.8	74.1
1250	93.7	94.3	94.0	93.9	94.2	93.3	94.1	95.8	96.2	97.3	99.2	101.5	103.0	103.8	100.9	91.7	85.1	78.4	71.7
1600	91.2	91.8	91.5	91.4	91.7	90.8	91.5	93.2	93.5	94.7	96.6	98.9	100.4	101.3	98.4	89.3	82.6	76.0	69.3
2000	88.6	89.3	88.9	88.8	89.1	88.1	88.8	90.5	90.7	91.9	93.9	96.2	97.7	98.7	95.8	86.7	80.1	73.4	66.7
2500	85.9	86.5	86.1	86.0	86.2	85.3	86.0	87.6	87.7	88.9	90.9	93.2	94.7	95.5	92.8	83.8	77.2	70.5	63.8
3150	82.6	83.4	83.1	82.9	83.2	82.2	82.8	84.4	84.5	85.7	87.6	90.0	91.4	92.3	89.4	80.6	74.0	67.3	60.6
4000	79.3	79.9	79.6	79.4	79.7	78.7	79.3	80.9	80.9	82.0	83.9	86.3	87.7	88.5	85.7	77.0	70.3	63.7	57.0
5000	75.3	75.9	75.6	75.5	75.7	74.7	75.3	76.9	76.8	78.0	79.8	82.3	83.5	84.3	81.5	72.9	66.2	59.5	52.9
6300	71.0	71.6	71.3	71.2	71.5	70.4	71.0	72.6	72.5	73.6	75.4	77.9	79.1	79.9	77.1	68.5	61.8	55.2	48.5
8000	67.2	67.8	67.4	67.3	67.5	66.4	67.0	68.5	68.3	69.5	71.5	73.9	75.2	76.2	73.4	64.9	58.2	51.5	44.9
10000	63.1	63.7	63.2	63.1	63.2	62.1	62.7	64.1	63.9	65.1	67.3	69.6	71.1	72.2	69.4	60.9	54.2	47.6	40.9
12500	58.5	59.1	58.6	58.4	58.5	57.4	57.9	59.2	59.0	60.3	62.7	65.0	66.6	67.9	65.0	56.5	49.9	43.2	36.5
16000	53.5	54.1	53.4	53.3	53.3	52.1	52.0	53.8	53.8	55.2	57.7	59.9	61.7	63.2	60.3	51.7	45.1	38.4	31.7
20000	47.9	48.4	47.7	47.6	47.5	46.3	46.6	47.9	48.0	49.5	52.2	54.3	56.3	58.0	55.1	46.4	39.7	33.1	26.4
25000	41.6	42.1	41.3	41.2	41.0	39.9	40.3	41.4	41.7	43.4	46.2	48.2	50.5	52.3	49.3	40.5	33.9	27.2	20.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

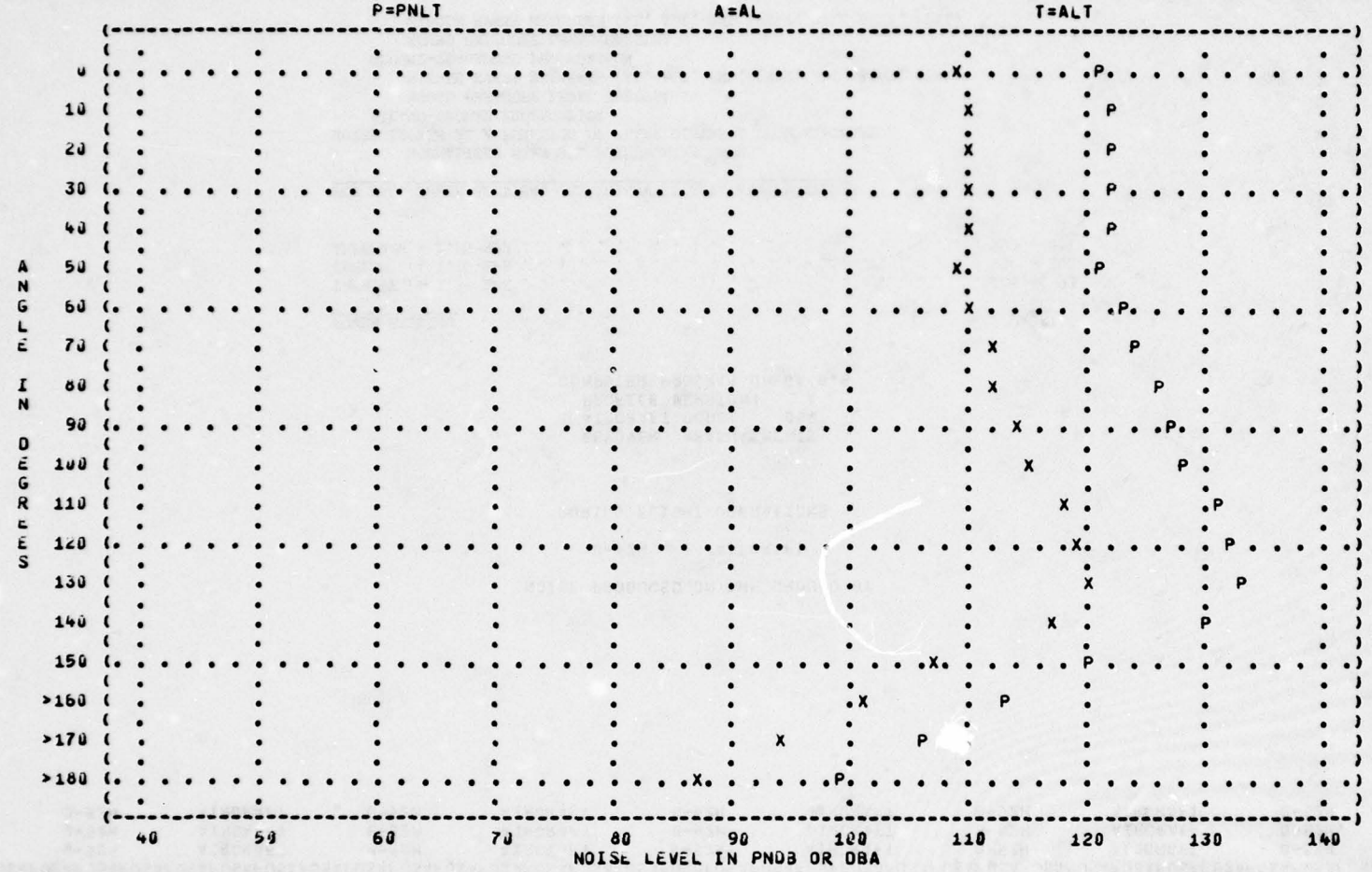
NOISE SOURCE/SUBJECT:
B-52G AIRCRAFT
ENG. J57-43WA
GROUND RUNUP

OPERATION:
MAXIMUM POWER (DRY)
94% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-015
RUN 04
AIRCRAFT CODE 043
OPERATION CODE 06031
PROFILE VERSION A
18 DEC 75
PAGE J4

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAF B-52H AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

B-52H AIRCRAFT

DURING FLIGHT OPERATIONS

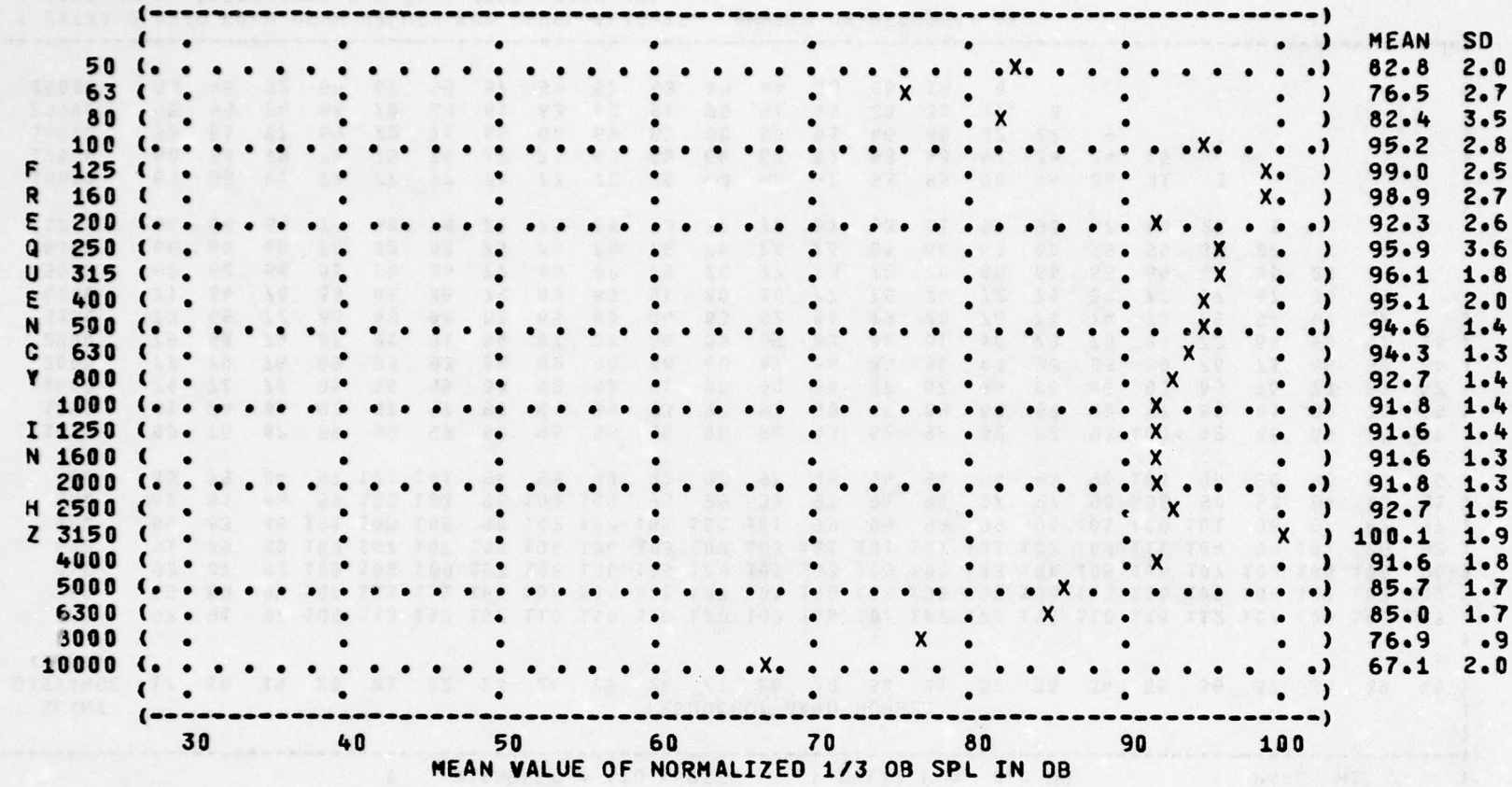
FLYOVER MEASUREMENTS
AIRCRAFT CODE: 044
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

POWER SETTING	PAGE
TAKEOFF - 1.65 EPR	185 - 193
CRUISE - 1.10 EPR	194 - 202
APPROACH - 1.25 EPR	203 - 211

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
AIR-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO



B-52H TAKEOFF POWER 1.65 EPR

AIRSPEED = 170 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 11

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-044-103-220176

PNLT = 123.4 PNDB
PNL = 120.8 PNDB
ALT = 107.9 DBA
AL = 105.3 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-52H

OPERATION:
TAKEOFF POWER
1.65 EPR
AIRSPEED = 170 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 044
OPS CODE: 103
PROFILE VER: A
22 JAN 76
PAGE H1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	97	91	97	109	113	113	107	110	110	110	109	109	108	107	107	108	108	110	118	112	107	109	106	103
250	95	89	95	107	111	111	105	108	108	108	107	107	106	105	105	105	106	108	116	109	104	107	103	100
315	93	87	93	105	109	109	103	106	106	105	105	105	103	103	103	103	104	105	114	107	102	104	100	96
400	91	85	90	103	107	107	100	104	104	103	103	103	101	101	101	101	102	103	111	104	99	101	96	92
500	89	83	88	101	105	105	98	102	102	101	101	101	99	99	99	99	99	101	109	101	96	97	92	87
630	87	81	86	99	103	103	96	100	100	99	99	99	97	96	96	97	97	98	106	98	93	94	88	81
800	85	79	84	97	101	101	94	98	98	97	97	97	95	94	94	94	94	96	103	95	90	90	83	75
1000	83	76	82	95	99	99	92	96	96	95	95	94	93	92	92	92	92	93	100<	92	86	85	77	67
1250	81	74	80	93	97	97	90	94	94	93	92	92	90	89	89	89	89	90	97	88	81	80	70	58
1600	79	72	78	91	95	95	88	92	92	91	90	90	88	87	87	86	86	86	93	83	76	73	62	47
2000	77	70	76	89	93	93	86	90	90	88	88	87	86	84	84	83	83	83	89	78	71	66	52	34
2500	75	68	74	87	91	91	84	87	87	86	86	85	83	82	81	80	79	79	84	72	64	58	41	18
3150	73	66	72	85	89	88	82	85	85	84	83	82	80	79	78	76	75	74	78	65	56	47	27	
4000	71	64	70	83	86	86	79	83	83	81	80	80	77	75	74	72	71	69	72	57	47	35	9	
5000	68	62	68	81	84	84	77	80	80	79	78	77	74	72	70	68	66	63	64	47	35	20		
6300	66	60	66	78	82	82	75	78	78	76	75	73	70	68	66	63	60	55	55	35	22	1		
8000	64	58	64	76	80	79	72	75	75	73	72	70	67	63	61	57	53	47	44	20	5			
10000	62	56	61	74	77	77	70	73	72	70	68	66	62	58	55	50	44	36	31	3				
12500	60	53	59	72	75	74	67	70	69	66	64	62	57	53	48	42	34	24	15					
16000	58	51	57	69	72	71	64	66	65	62	60	57	51	46	40	32	22	9						
20000	55	49	54	66	70	69	61	63	62	58	55	51	44	38	30	20	8							
25000	53	46	52	64	67	65	57	59	57	53	49	44	36	28	19	6								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 11
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
B-52H

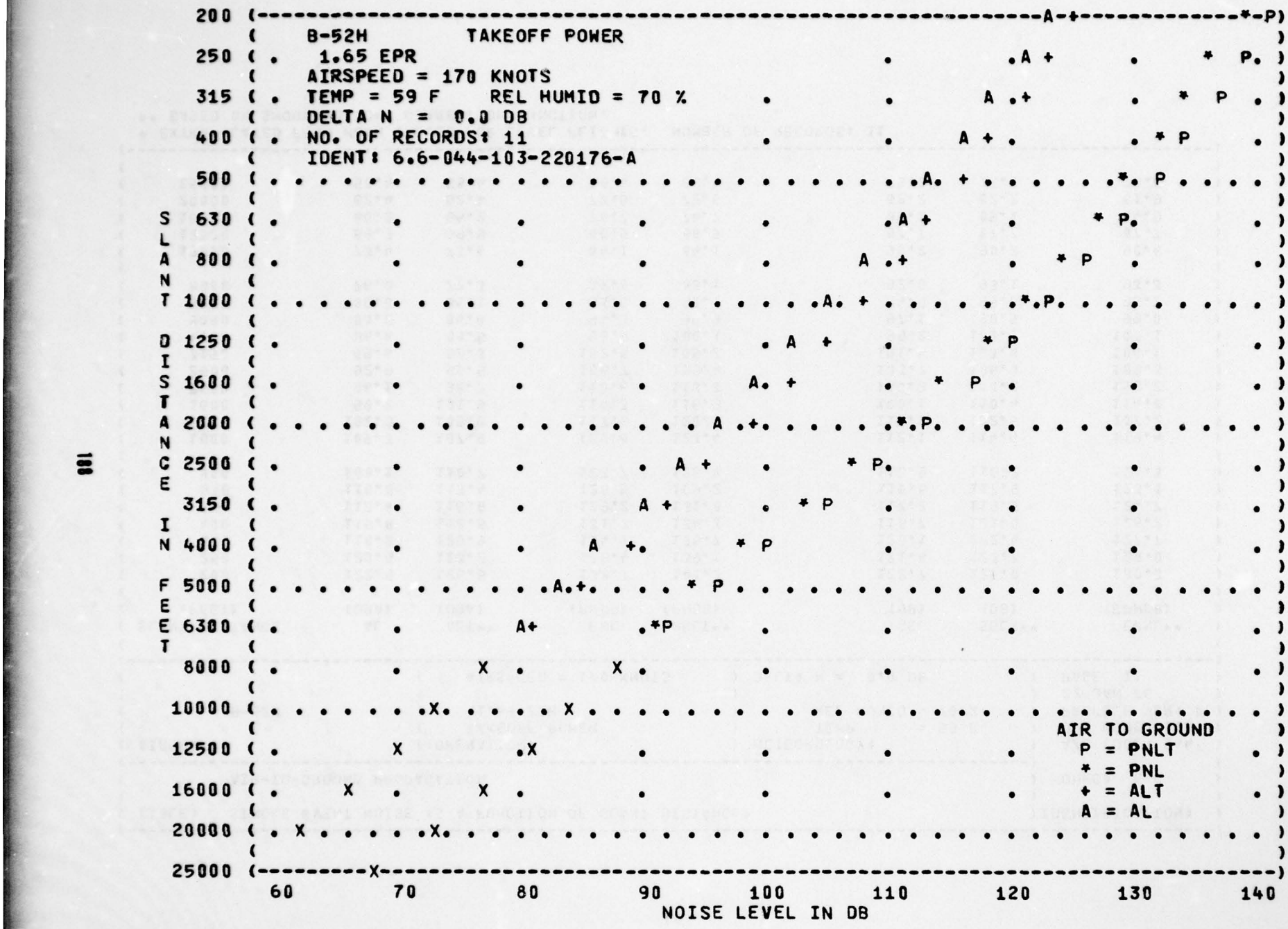
OPERATION:
TAKEOFF POWER
1.65 EPR
AIRSPEED = 170 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 044
OPS CODE: 103
PROFILE VER: A
22 JAN 76
PAGE I1

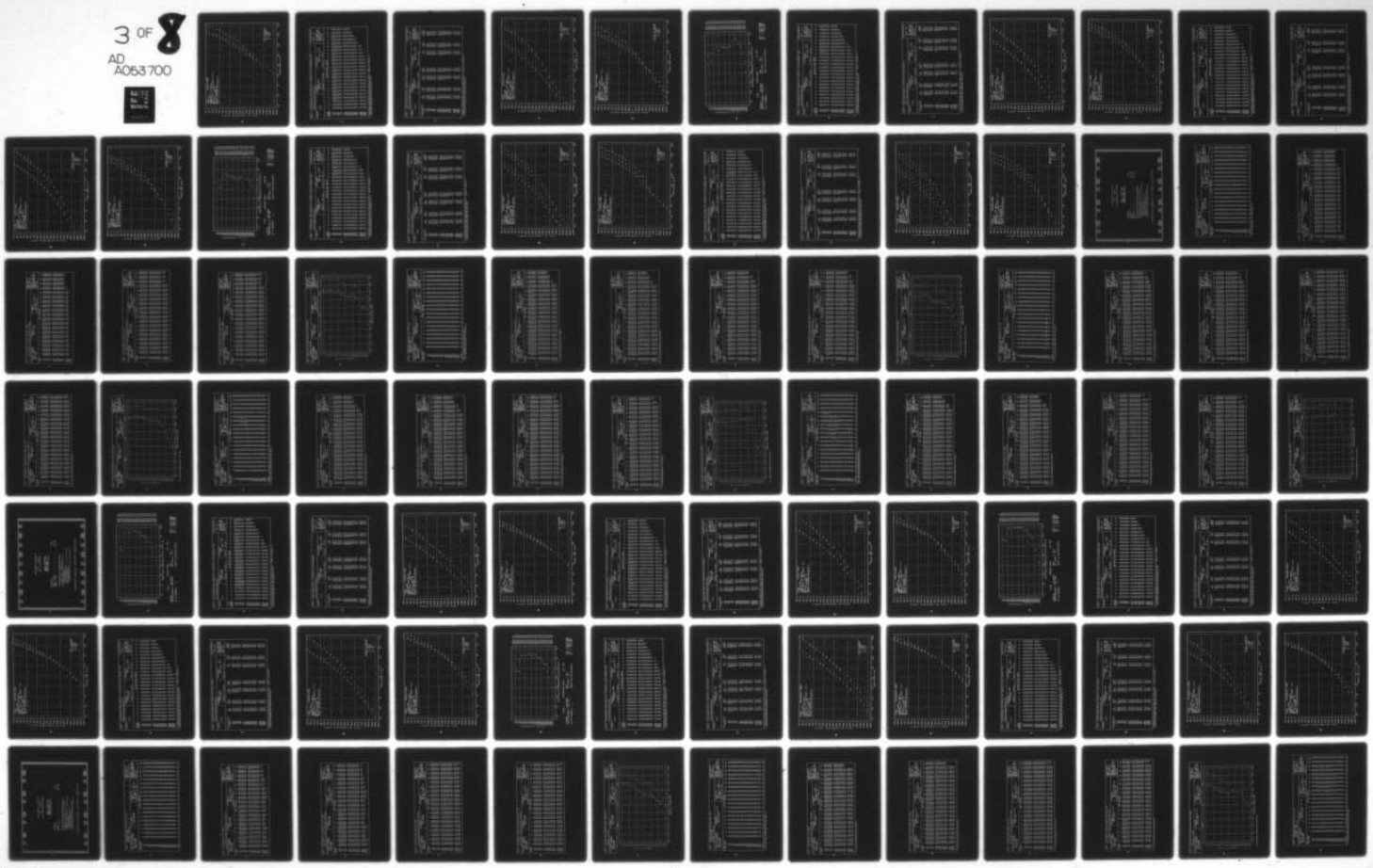
SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	122.9	125.5	138.7	141.3	122.7	125.0	130.3
250	120.6	123.2	136.4	139.1	121.4	123.7	129.0
315	118.2	120.9	134.1	136.7	120.1	122.4	127.7
400	115.8	118.5	131.7	134.3	118.7	121.0	126.2
500	113.4	116.0	129.2	131.8	117.2	119.5	124.7
630	110.8	113.4	126.5	129.2	115.6	117.9	123.1
800	108.1	110.7	123.7	126.4	113.9	116.2	121.3
1000	105.3	107.9	120.8	123.4	112.1	114.4	119.4
1250	102.3	105.0	117.6	120.3	110.1	112.5	117.2
1600	99.2	101.9	114.3	116.9	108.1	110.4	114.8
2000	96.1	98.7	110.6	113.3	105.9	108.2	112.2
2500	92.9	95.5	106.7	109.4	103.7	106.0	109.3
3150	89.6	92.3	102.5	105.2	101.4	103.8	106.1
4000	86.4	88.5	98.0	100.1	99.2	101.1	102.1
5000	83.2	84.8	94.3	95.9	97.1	98.5	99.0
6300	80.0	81.1	91.0	92.1	94.9	95.8	96.2
8000	76.8	77.3	87.6	88.1	92.6	93.1	93.3
10000	73.4	73.4	84.1	84.1	90.2	90.2	90.4
12500	69.9	69.9	80.5	80.5	87.7	87.7	87.7
16000	66.2	66.2	76.7	76.7	85.1	85.1	84.9
20000	62.4	62.4	72.6	72.6	82.2	82.2	81.9
25000	58.4	58.4	68.4	68.4	79.2	79.2	78.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 11
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-52H TAKEOFF POWER
1.65 EPR
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 11
IDENT: 6.6-044-103-220176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

AD-A053 700 AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB OHIO F/G 1/2
COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS. VO--ETC(U)
NOV 77 J D SPEAKMAN, R G POWELL, R A LEE
UNCLASSIFIED AMRL-TR-73-110-VOL-2 NL

3 OF 8
AD A053700



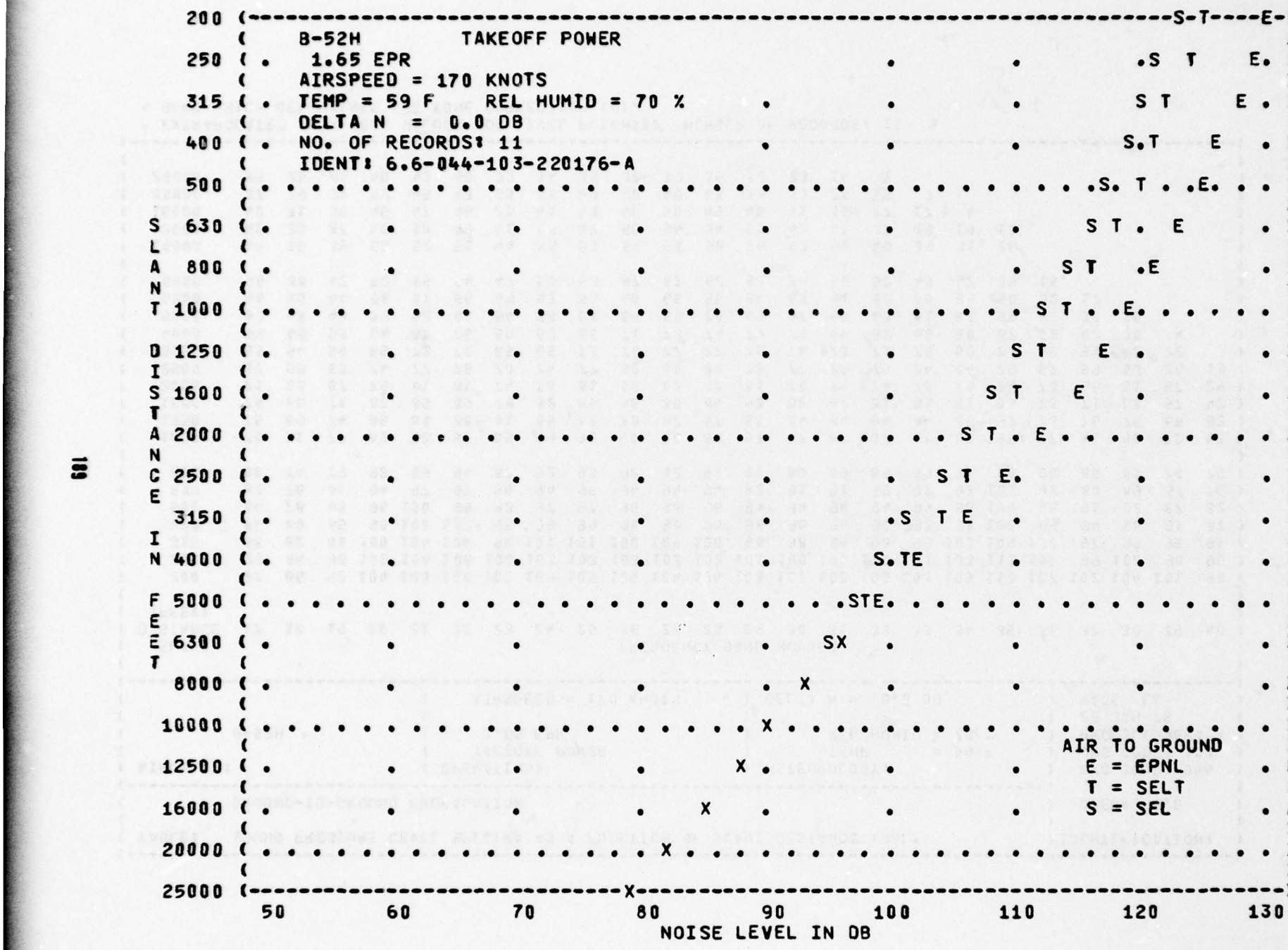

B-52H TAKEOFF POWER
1.65 EPR
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 11
IDENT: 6.6-044-103-220176-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: B-52H

OPERATION: TAKEOFF POWER, 1.65 EPR, AIRSPEED = 170 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 044
OPS CODE: 103
PROFILE VER: A
22 JAN 76
PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	92	86	92	104	108	108	102	105	105	105	104	104	103	102	102	103	103	105	113	107	102	104	101	98
250	90	84	90	102	106	106	100	103	103	103	102	102	101	100	100	100	101	103	111	104	99	102	98	95
315	88	82	88	100	104	104	98	101	101	100	100	100	98	98	98	98	99	100	109	102	97	99	95	91
400	86	80	85	98	102	102	95	99	99	98	98	98	96	96	96	96	97	98	106	99	94	96	91	87
500	84	78	83	96	100	99	93	97	97	96	96	96	94	94	94	94	94	96	104	96	91	92	87	82
630	82	76	81	94	97	97	90	94	95	94	94	94	92	91	91	92	92	93	101	93	88	89	83	76
800	80	74	79	92	95	94	87	92	93	92	92	92	90	89	89	89	89	91	98	90	85	85	78	70
1000	78	71	77	89	92	91	85	89	91	90	90	89	88	87	87	87	87	88	95<	87	81	80	72	62
1250	76	69	74	86	89	88	81	85	88	88	87	87	85	84	84	84	84	85	92	83	76	75	65	53
1600	74	66	71	82	85	85	78	82	85	86	85	85	83	82	82	81	81	81	88	78	71	68	57	42
2000	71	63	67	79	81	81	74	78	81	83	83	82	81	79	79	78	78	78	84	73	66	61	47	29
2500	67	59	63	74	77	76	70	74	77	80	80	80	78	77	76	75	74	74	79	67	59	53	36	13
3150	63	54	59	69	72	71	65	69	73	76	77	77	75	74	73	71	70	69	73	60	51	42	22	
4000	59	49	53	64	67	66	59	63	68	71	73	74	72	70	69	67	66	64	67	52	42	30	4	
5000	53	45	48	59	62	61	54	58	62	65	69	70	69	67	65	63	61	58	59	42	30	15		
6300	48	40	44	54	57	56	49	53	56	60	65	65	64	63	61	58	55	50	50	30	17			
8000	46	38	42	52	55	54	47	50	53	57	62	62	61	58	56	52	48	42	39	15				
10000	44	36	39	50	52	51	44	48	50	54	58	58	56	53	50	45	39	31	26					
12500	42	33	37	48	50	49	41	45	47	50	54	54	51	48	43	37	29	19	10					
16000	40	31	35	45	47	46	38	41	43	46	50	49	45	41	35	27	17	4						
20000	37	29	32	42	45	43	35	38	40	42	45	43	38	33	25	15	3							
25000	35	26	30	40	42	40	32	34	35	37	39	36	30	23	14	1								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 11
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
B-52H

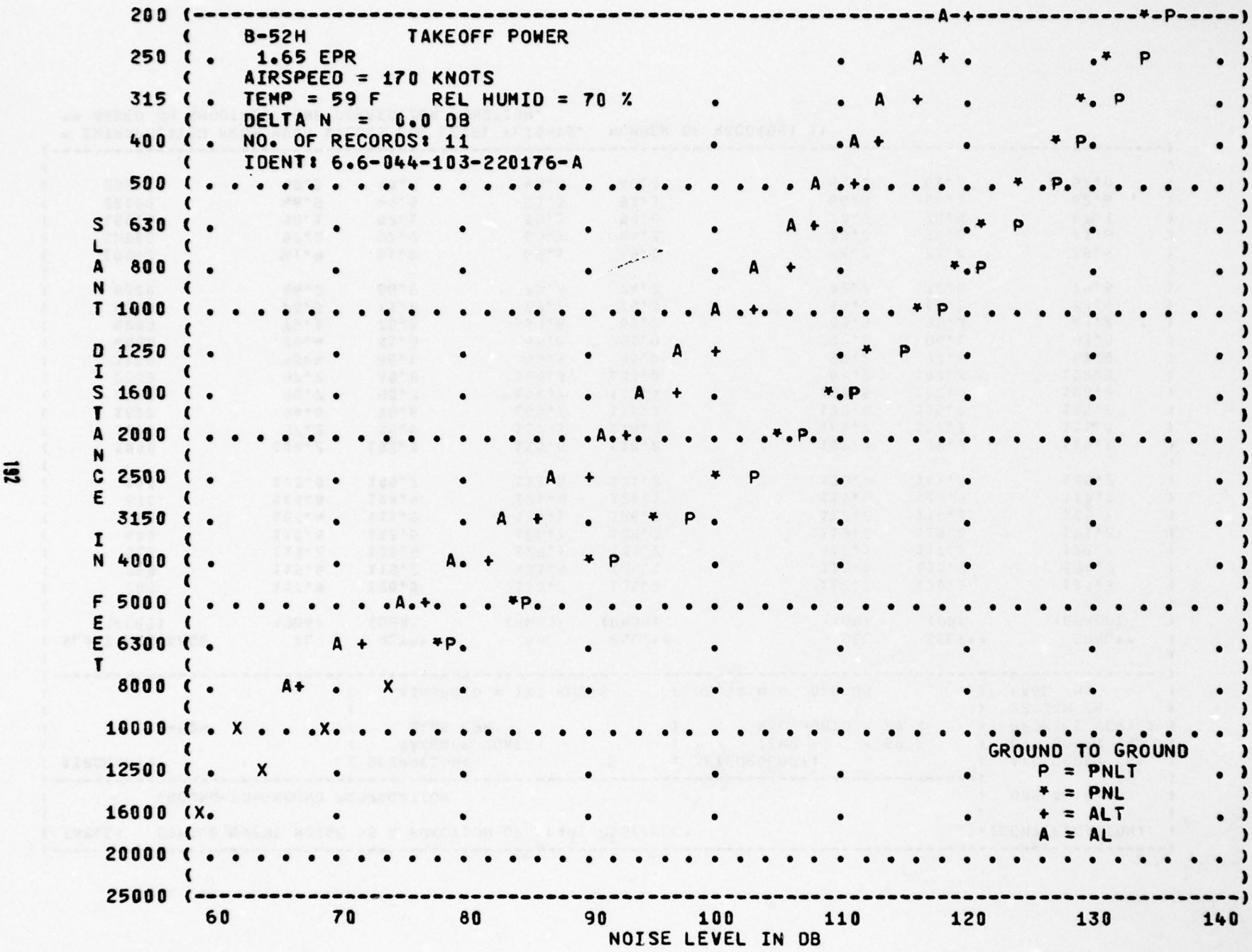
OPERATION:
TAKEOFF POWER
1.65 EPR
AIRSPEED = 170 KNOTS

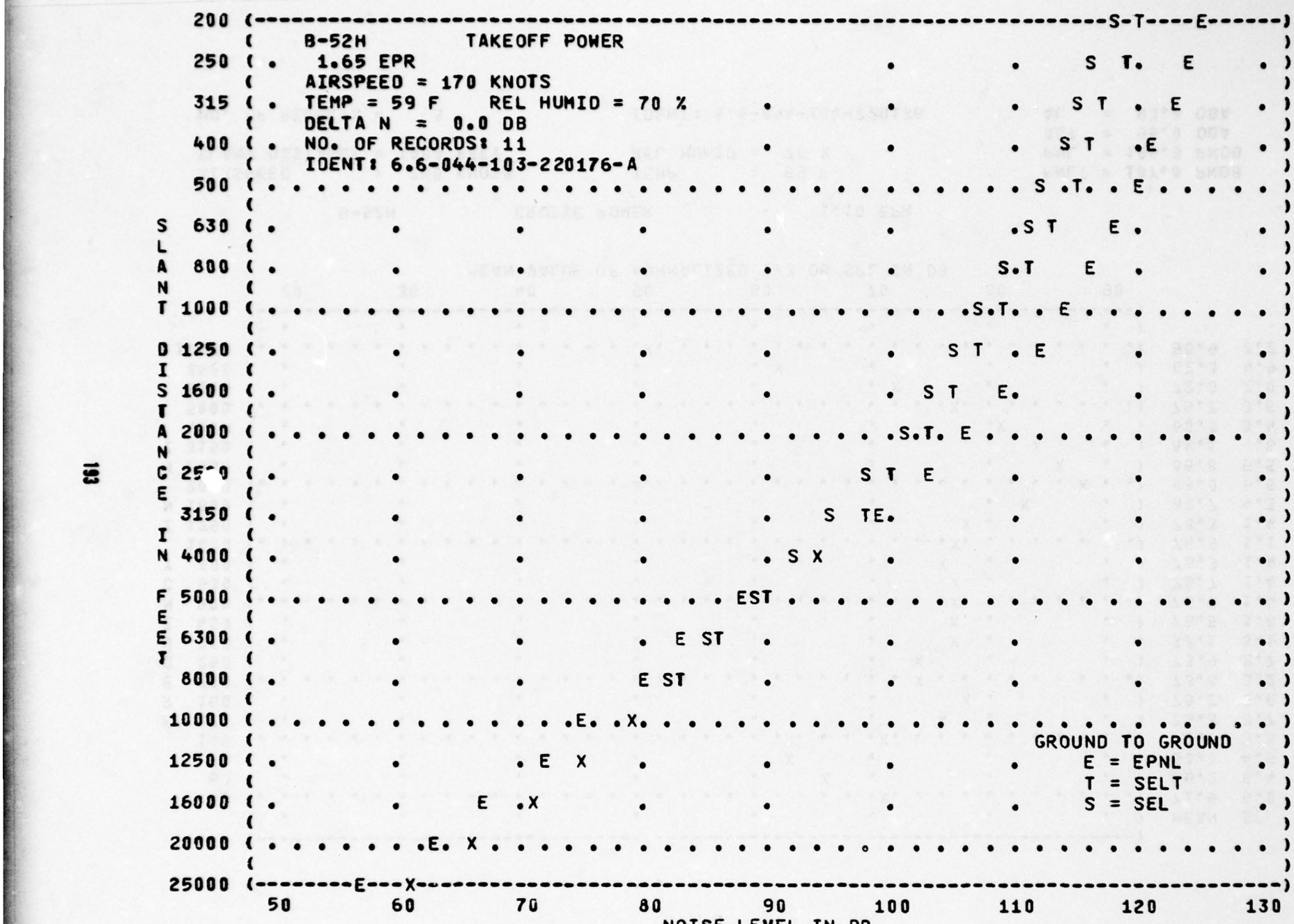
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

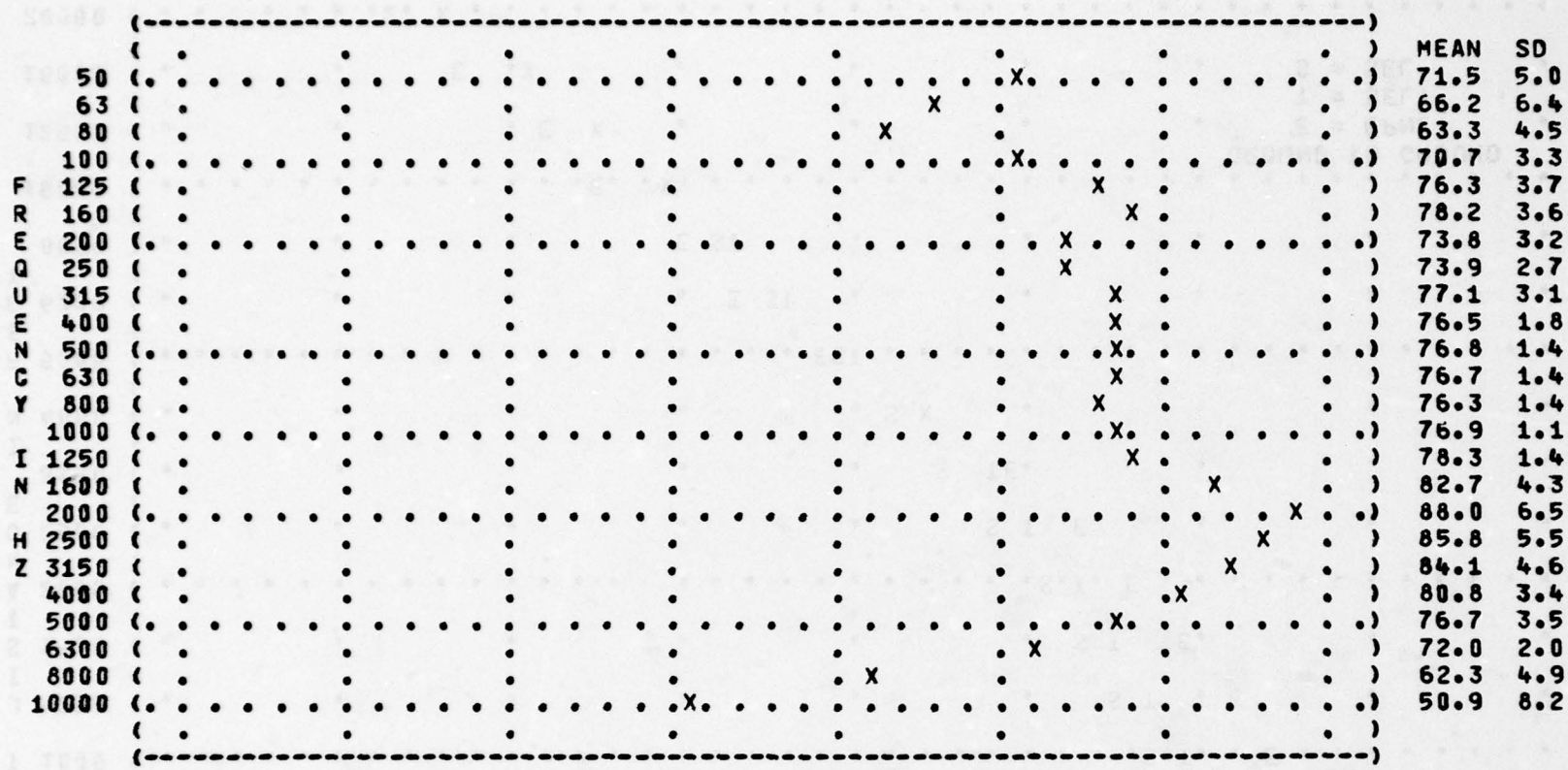
A/C CODE: 044
OPS CODE: 103
PROFILE VER: A
22 JAN 76
PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	117.9	120.5	133.7	136.3	117.7	120.0	125.3
250	115.6	118.2	131.4	134.1	116.4	118.7	124.0
315	113.2	115.9	129.1	131.7	115.1	117.4	122.7
400	110.8	113.5	126.7	129.3	113.7	116.0	121.2
500	108.4	111.0	124.1	126.8	112.2	114.5	119.7
630	105.8	108.4	121.4	124.1	110.6	112.9	118.0
800	103.0	105.7	118.6	121.2	108.9	111.2	116.2
1000	100.2	102.8	115.6	118.2	107.0	109.3	114.1
1250	97.2	99.8	112.3	114.9	105.0	107.3	111.8
1600	94.0	96.6	108.7	111.3	102.8	105.2	109.2
2000	90.7	93.3	104.7	107.4	100.5	102.9	106.3
2500	87.2	89.8	100.3	103.0	98.0	100.3	102.9
3150	83.4	86.1	95.4	98.0	95.2	97.6	98.9
4000	79.4	81.5	89.8	91.9	92.2	94.1	93.9
5000	75.1	76.6	83.6	85.2	88.9	90.3	88.2
6300	70.5	71.5	78.2	79.3	85.3	86.2	83.4
8000	66.3	66.9	73.8	74.3	82.2	82.6	79.5
10000	61.9	61.9	69.1	69.1	78.7	78.7	75.4
12500	57.2	57.2	64.3	64.3	75.0	75.0	71.6
16000	52.1	52.1	59.0	59.0	70.9	70.9	67.3
20000	46.5	46.5	53.3	53.3	66.3	66.3	62.6
25000	40.5	40.5	46.8	46.8	61.3	61.3	57.0

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 11
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-52H TAKEOFF POWER
1.65 EPR
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 11
IDENT: 6.6-044-103-220176-A
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB


B-52H TAKEOFF POWER
1.65 EPR
AIRSPEED = 170 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 11
IDENT: 6.6-044-103-220176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB



B-52H CRUISE POWER 1.10 EPR

AIRSPEED = 250 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-044-104-220176

PNLT = 107.8 PNDB
PNL = 106.5 PNDB
ALT = 95.0 DBA
AL = 93.8 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
B-52H

OPERATION:
CRUISE POWER
1.10 EPR
AIRSPEED = 250 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 044
OPS CODE: 104
PROFILE VER: A
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SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	86	80	77	85	90	92	88	88	91	91	91	91	91	92	94	99	104	103	103	101	98	96	91	87
250	84	78	75	83	88	90	86	86	89	89	89	89	89	90	92	97	102	101	100	99	95	94	88	83
315	82	76	73	81	86	88	84	84	87	87	87	87	87	88	90	94	100	99	98	96	93	91	85	80
400	80	74	71	79	84	86	82	82	85	85	85	85	85	86	87	92	98	96	95	93	90	88	82	75
500	78	72	69	77	82	84	80	80	83	83	83	83	83	84	85	90	96	94	93	91	87	84	78	70
630	76	70	67	75	80	82	78	78	81	81	81	81	81	81	83	88	93	91	90	88	84	81	73	65
800	73	68	65	73	78	80	76	76	79	79	79	79	79	79	81	85	91	89	87	84	81	77	68	58
1000	71	66	63	71	76	78	74	74	77	77	77	77	76	77	78	83	88<	86	84	81	77	72	62	51
1250	69	64	61	69	74	76	72	72	75	74	75	74	74	74	76	80	85	83	81	77	72	67	56	42
1600	67	62	59	67	72	74	70	70	73	72	72	72	72	72	73	77	82	79	77	72	67	61	47	31
2000	65	60	57	65	70	72	67	68	71	70	70	70	69	69	70	74	79	76	73	67	62	53	38	18
2500	63	58	55	62	68	70	65	65	68	68	68	67	67	67	67	71	75	72	68	61	55	45	26	2
3150	61	56	53	60	66	68	63	63	66	65	65	65	64	64	64	68	71	67	62	54	47	34	12	
4000	59	54	51	58	64	65	61	61	64	63	63	62	61	60	61	64	67	62	56	46	38	22		
5000	57	52	49	56	62	63	59	58	61	60	60	59	58	57	57	59	62	56	48	36	26	7		
6300	55	50	47	54	59	61	56	56	59	57	57	56	54	53	52	54	56	48	39	24	13			
8000	53	48	44	52	57	59	54	53	56	54	54	52	50	49	47	48	49	40	28	10				
10000	51	45	42	49	55	56	51	51	53	51	50	48	46	44	42	41	40	29	15					
12500	49	43	40	47	52	53	48	48	50	48	46	44	41	38	35	33	31	17						
16000	46	41	38	45	50	51	45	45	46	44	42	39	35	31	27	23	19	2						
20000	44	38	35	42	47	48	42	41	43	39	37	33	28	23	17	11	4							
25000	42	36	33	39	44	45	39	37	38	34	31	26	20	13	5									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 044
OPS CODE: 104
PROFILE VER: A
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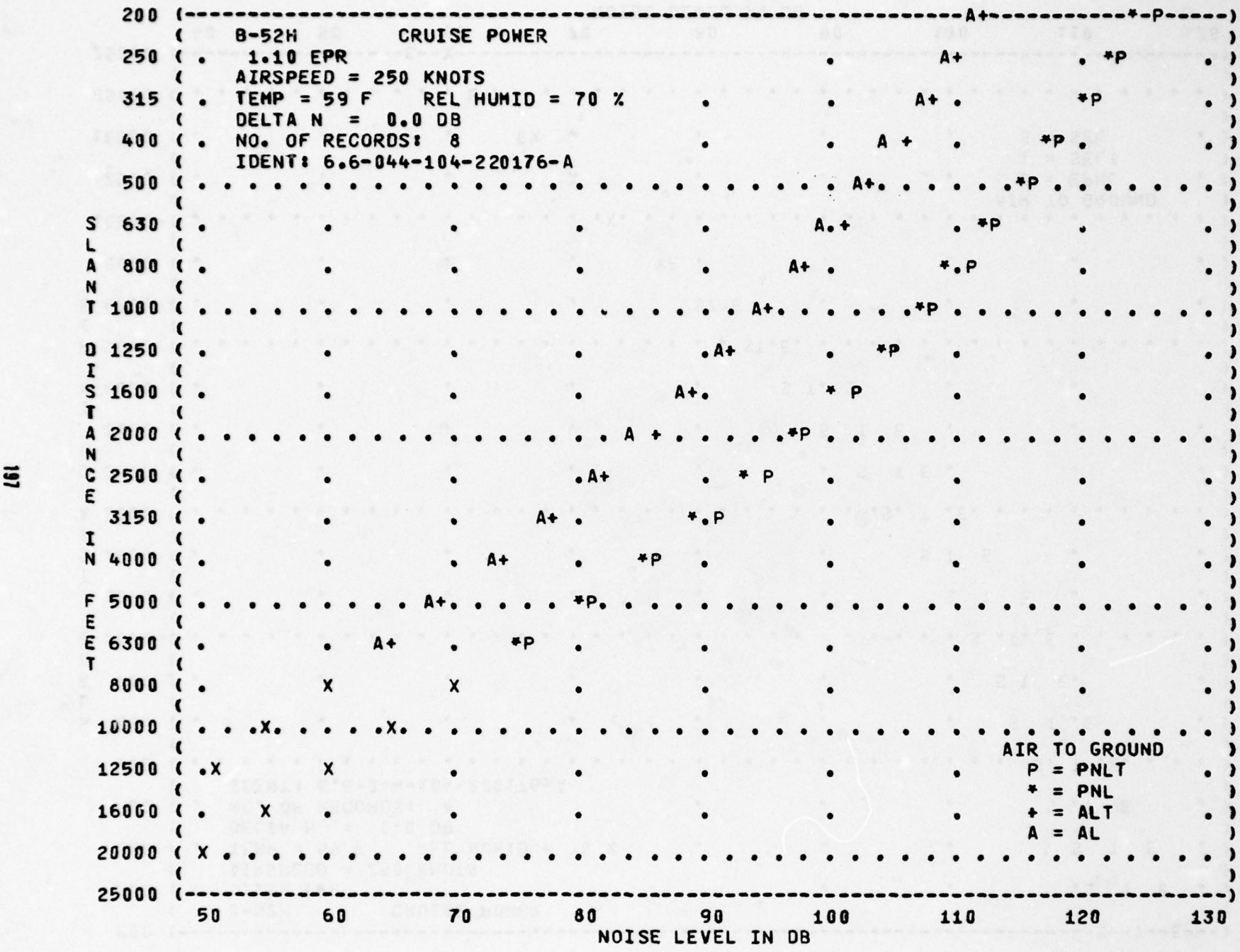
AIRCRAFT: B-52H

OPERATION:
CRUISE POWER
1.10 EPR
AIRSPEED = 250 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	111.2	112.5	124.3	125.5	112.4	115.1	118.4
250	109.0	110.2	122.0	123.2	111.1	113.8	117.1
315	106.7	107.9	119.6	120.9	109.8	112.5	115.8
400	104.3	105.5	117.2	118.4	108.5	111.1	114.3
500	101.8	103.1	114.7	115.9	107.0	109.7	112.8
630	99.3	100.5	112.0	113.3	105.4	108.1	111.2
800	96.6	97.9	109.3	110.6	103.8	106.4	109.4
1000	93.8	95.0	106.5	107.8	102.0	104.6	107.6
1250	90.8	92.1	103.5	104.8	100.0	102.7	105.7
1600	87.7	88.9	100.4	101.6	97.8	100.5	103.5
2000	84.3	85.6	97.0	98.2	95.5	98.1	101.1
2500	80.7	82.0	93.3	94.6	92.9	95.5	98.5
3150	76.9	78.1	89.4	90.6	90.0	92.7	95.5
4000	72.8	73.8	85.1	86.1	86.9	89.1	91.7
5000	68.5	69.2	80.4	81.2	83.6	85.2	87.5
6300	64.0	64.5	75.3	75.8	80.2	81.3	82.8
8000	59.6	59.9	69.8	70.0	76.8	77.3	77.7
10000	55.3	55.3	64.7	64.7	73.5	73.5	73.2
12500	51.1	51.1	60.1	60.1	70.3	70.3	69.6
16000	47.0	47.0	55.3	55.3	67.1	67.1	65.7
20000	42.7	42.7	50.1	50.1	63.9	63.9	61.6
25000	38.3	38.3	44.4	44.4	60.5	60.5	56.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-52H CRUISE POWER
1.10 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-044-104-220176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

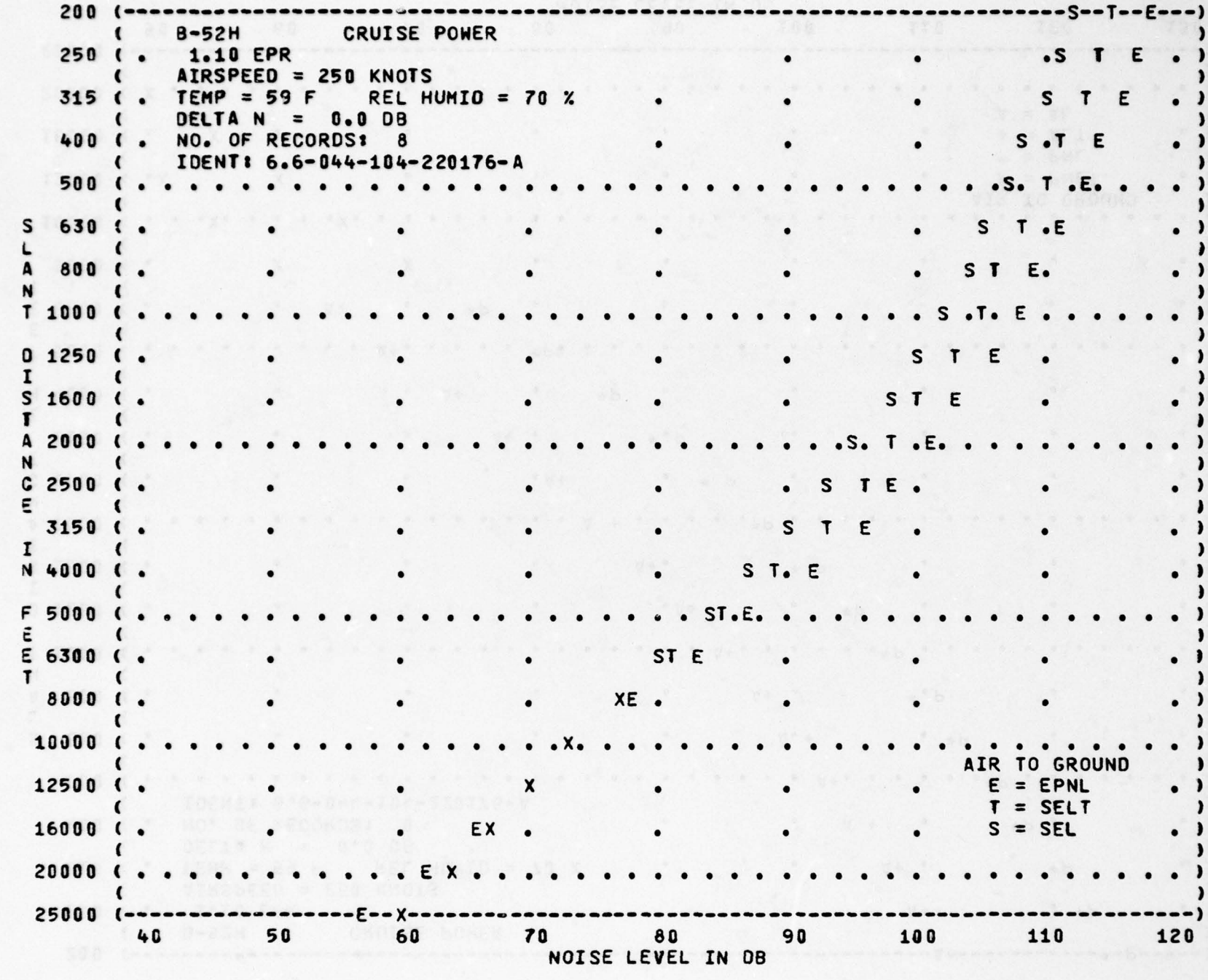

B-52H CRUISE POWER
1.10 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-044-104-220176-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-52H

OPERATION:
CRUISE POWER
1.10 EPR
AIRSPEED = 250 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

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SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	81	75	72	80	85	87	83	83	86	86	86	86	86	87	89	94	99	98	98	96	93	91	86	82
250	79	73	70	78	83	85	81	81	84	84	84	84	84	85	87	92	97	96	95	94	90	89	83	78
315	77	71	68	76	81	83	79	79	82	82	82	82	82	83	85	89	95	94	93	91	88	86	80	75
400	75	69	66	74	79	81	77	77	80	80	80	80	80	81	82	87	93	91	90	88	85	83	77	70
500	73	67	64	72	77	79	74	75	78	78	78	78	78	79	80	85	91	89	88	86	82	79	73	65
630	71	65	62	70	75	76	72	72	76	76	76	76	76	76	78	83	88	86	85	83	79	76	68	60
800	68	63	60	67	72	73	69	70	74	74	74	74	74	74	76	80	86	84	82	79	76	72	63	53
1000	66	61	58	64	69	70	66	67	72	72	72	72	71	72	73	78	83<	81	79	76	72	67	57	46
1250	64	59	55	61	66	67	63	63	69	69	70	69	69	69	71	75	80	78	76	72	67	62	51	37
1600	62	56	52	58	62	64	59	60	66	67	67	67	67	67	68	72	77	74	72	67	62	56	42	26
2000	59	52	48	54	59	60	55	56	62	65	65	65	64	64	65	69	74	71	68	62	57	48	33	13
2500	56	48	44	50	54	56	51	52	58	61	63	62	62	62	62	66	70	67	63	56	50	40	21	
3150	52	44	39	45	49	51	46	47	54	57	59	60	59	59	59	63	66	62	57	49	42	29	7	
4000	47	39	34	39	44	45	40	41	49	52	55	56	56	55	56	59	62	57	51	41	33	17		
5000	42	34	29	35	39	40	36	36	43	47	51	52	52	52	52	54	57	51	43	31	21	2		
6300	37	30	25	30	34	35	31	31	37	41	47	48	48	48	47	49	51	43	34	19	8			
8000	35	28	22	28	32	33	28	28	34	38	44	44	44	44	42	43	44	35	23	5				
10000	33	25	20	25	30	31	26	26	31	35	40	40	40	39	37	36	35	24	10					
12500	31	23	18	23	27	28	23	23	28	32	36	36	35	33	30	28	26	12						
16000	28	21	16	21	25	25	20	20	24	28	32	31	29	26	22	18	14							
20000	26	18	13	18	22	22	17	16	21	23	27	25	22	18	12	6								
25000	24	16	11	15	19	19	13	12	16	18	21	18	14	8	0									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-52H

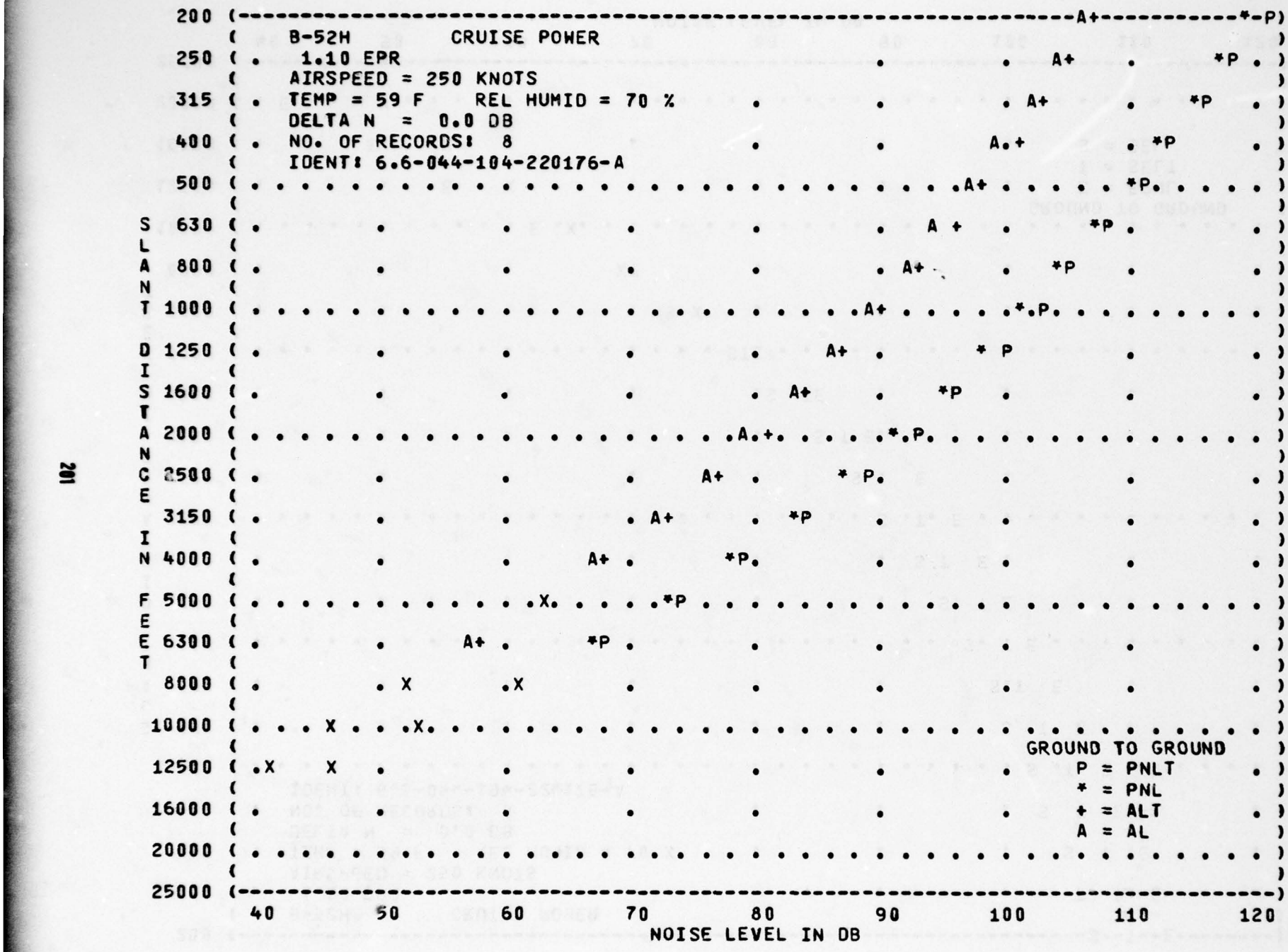
OPERATION:
CRUISE POWER
1.10 EPR
AIRSPEED = 250 KNOTS

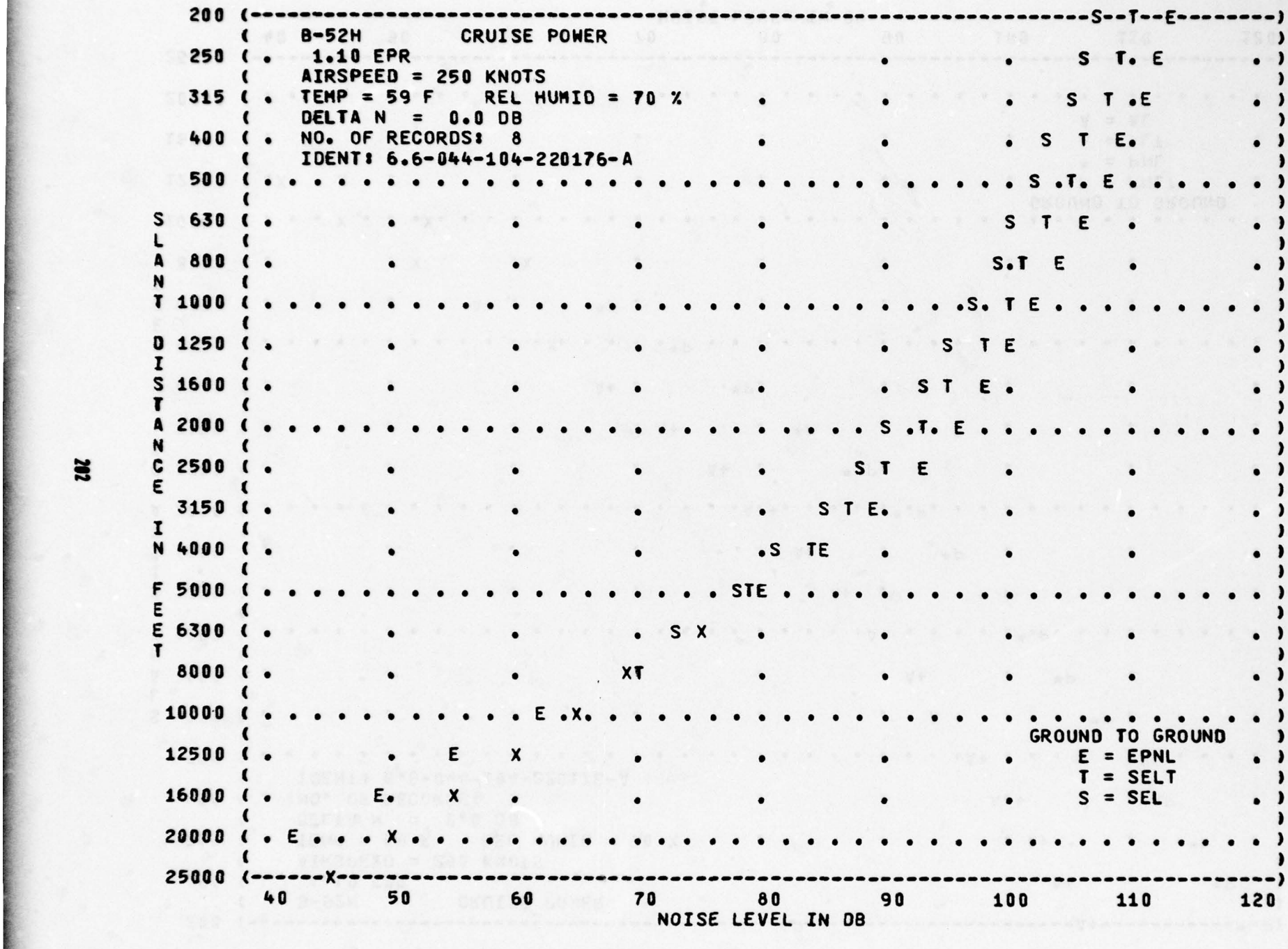
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

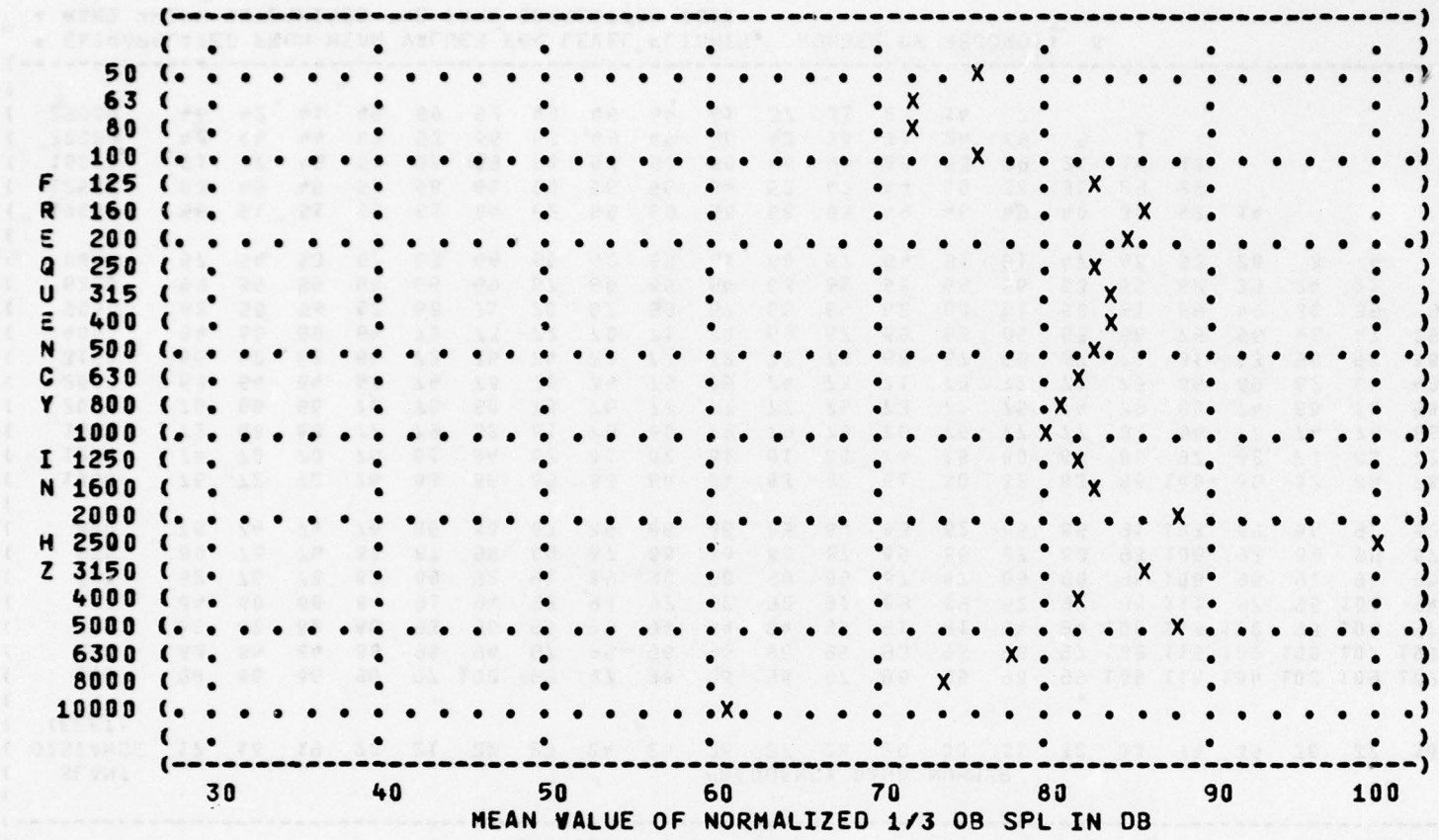
A/C CODE: 044
OPS CODE: 104
PROFILE VER: A
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SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	106.2	107.5	119.3	120.5	107.4	110.1	113.4
250	104.0	105.2	117.0	118.2	106.1	108.8	112.1
315	101.7	102.9	114.6	115.9	104.8	107.5	110.7
400	99.3	100.5	112.2	113.4	103.5	106.1	109.3
500	96.8	98.1	109.6	110.9	102.0	104.7	107.7
630	94.3	95.5	107.0	108.2	100.4	103.1	106.1
800	91.6	92.8	104.2	105.4	98.8	101.4	104.3
1000	88.8	90.0	101.3	102.6	97.0	99.6	102.4
1250	85.8	87.1	98.3	99.5	95.0	97.6	100.4
1600	82.6	83.9	95.0	96.2	92.8	95.5	98.1
2000	79.2	80.5	91.4	92.6	90.4	93.1	95.5
2500	75.6	76.8	87.5	88.7	87.8	90.4	92.6
3150	71.6	72.9	83.2	84.4	84.8	87.5	89.3
4000	67.3	68.3	78.4	79.4	81.5	83.6	84.9
5000	62.5	63.3	73.0	73.8	77.7	79.3	80.1
6300	57.3	57.8	67.0	67.5	73.5	74.5	74.5
8000	52.0	52.2	60.6	60.8	69.1	69.7	68.6
10000	46.4	46.4	53.4	53.4	64.6	64.6	61.8
12500	40.8	40.8	45.6	45.6	60.0	60.0	55.1
16000	35.0	35.0	38.3	38.3	55.2	55.2	48.8
20000	29.0	29.0	30.1	30.1	50.1	50.1	41.6
25000	22.5	22.5	18.6	18.6	44.7	44.7	31.1

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-52H CRUISE POWER
1.10 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-044-104-220176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB


B-52H CRUISE POWER
1.10 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-044-104-220176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB



B-52H APPROACH POWER 1.25 EPR

AIRSPEED = 150 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-044-105-220176

PNLT = 120.6 PNDB
PNL = 116.5 PNDB
ALT = 106.4 DBA
AL = 102.4 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-52H

OPERATION:
APPROACH POWER
1.25 EPR
AIRSPEED = 150 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 044
OPS CODE: 105
PROFILE VER: A
22 JAN 76
PAGE H3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																								
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	90	86	86	90	97	100	99	97	98	98	98	97	96	95	98	99	105	118	104	103	109	102	104	98
250	88	84	84	88	95	98	97	95	96	96	96	95	93	93	96	97	102	115	102	100	107	100	101	95
315	86	82	82	86	93	96	95	93	94	94	94	93	91	91	94	94	100	113	100	98	104	97	98	91
400	84	80	80	84	91	94	93	91	92	92	92	91	89	89	92	92	98	111	97	95	101	94	94	86
500	82	78	78	82	89	92	91	89	90	90	90	89	87	87	89	90	96	108	95	92	99	90	90	81
630	80	76	76	80	87	90	89	87	88	88	88	87	85	85	87	88	93	106	92	89	95	87	86	76
800	78	74	74	78	85	88	87	85	86	86	85	84	83	82	85	85	91	103	89	86	92	82	80	69
1000	76	72	72	76	83	86	85	83	84	84	83	82	81	80	82	83	88	100<	86	82	88	78	74	61
1250	74	70	70	74	81	84	83	81	82	81	81	80	78	78	80	80	85	97	82	78	83	72	67	52
1600	72	68	68	72	79	82	81	78	80	79	79	78	76	75	77	77	82	94	78	74	78	66	59	40
2000	70	66	66	70	76	80	78	76	77	77	77	75	73	72	75	74	79	90	74	68	72	58	49	26
2500	68	64	64	68	74	78	76	74	75	75	74	73	71	70	72	71	75	86	69	62	65	49	37	10
3150	66	62	62	66	72	76	74	72	73	72	72	70	68	67	68	67	71	81	63	55	57	38	22	
4000	64	60	60	64	70	73	72	70	71	70	69	67	65	63	65	63	66	75	56	46	47	25	4	
5000	62	58	58	62	68	71	70	67	68	67	66	64	62	60	61	58	61	69	49	36	35	9		
6300	59	56	55	60	66	69	67	65	65	64	63	61	58	56	56	53	55	62	39	24	21			
8000	57	54	53	57	63	66	65	62	63	61	60	57	54	51	51	47	48	53	28	8	4			
10000	55	51	51	55	61	64	62	59	60	58	56	53	49	46	45	40	39	42	14					
12500	53	49	49	53	58	61	59	56	56	54	52	49	44	40	38	31	29	29						
16000	51	47	46	50	56	59	56	53	53	50	48	44	38	33	29	21	16	13						
20000	48	44	44	47	53	56	53	49	49	46	43	38	31	24	19	9	1							
25000	46	42	41	45	50	52	49	45	44	41	37	31	23	14	7									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-52H

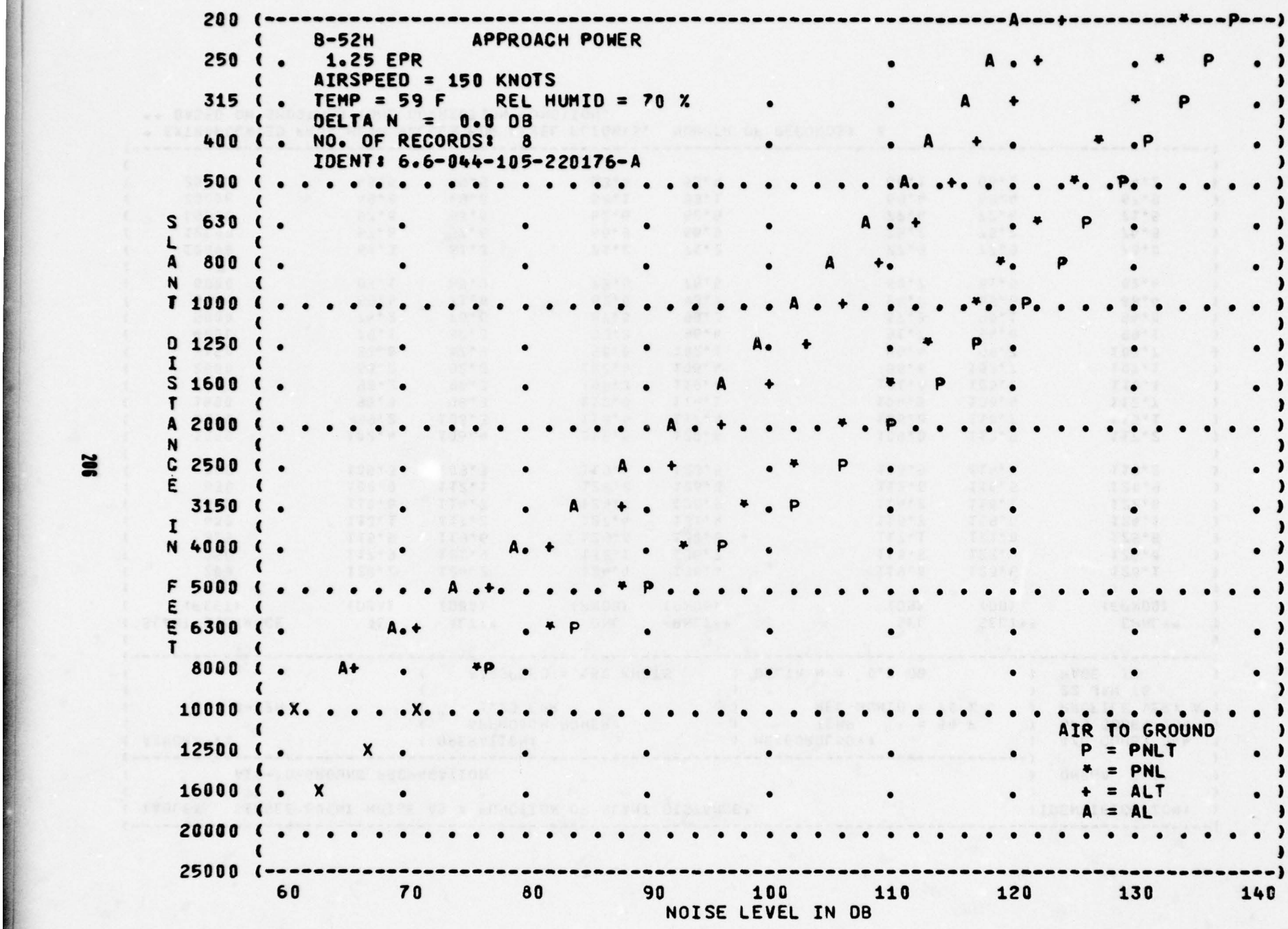
OPERATION:
APPROACH POWER
1.25 EPR
AIRSPEED = 150 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 044
OPS CODE: 105
PROFILE VER: A
22 JAN 76
PAGE I3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	120.2	124.2	134.4	138.4	119.8	123.6	128.1
250	117.9	121.9	132.1	136.2	118.5	122.4	126.8
315	115.5	119.6	129.8	133.8	117.1	121.0	125.5
400	113.1	117.2	127.4	131.4	115.7	119.6	124.1
500	110.6	114.7	124.8	128.9	114.2	118.1	122.6
630	108.0	112.1	122.2	126.3	112.6	116.5	120.9
800	105.3	109.3	119.4	123.5	110.9	114.8	119.2
1000	102.4	106.4	116.5	120.6	109.0	112.9	117.2
1250	99.2	103.3	113.4	117.4	106.8	110.7	115.1
1600	95.9	99.9	110.0	114.1	104.5	108.4	112.7
2000	92.2	96.3	106.3	110.4	101.8	105.7	110.1
2500	88.2	92.3	102.4	106.4	98.8	102.7	107.1
3150	83.8	87.9	98.0	102.1	95.4	99.3	103.7
4000	79.1	82.3	93.2	96.4	91.7	94.8	99.1
5000	74.2	76.6	87.8	90.3	87.8	90.1	94.0
6300	69.4	71.0	82.0	83.7	84.0	85.6	88.4
8000	65.1	65.9	75.8	76.6	80.7	81.5	82.4
10000	61.3	61.3	71.2	71.2	77.9	77.9	78.0
12500	57.6	57.6	66.9	66.9	75.2	75.2	74.8
16000	53.8	53.8	62.6	62.6	72.4	72.4	71.5
20000	49.8	49.8	58.1	58.1	69.4	69.4	67.9
25000	45.5	45.5	53.4	53.4	66.1	66.1	64.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-52H APPROACH POWER
1.25 EPR
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-044-105-220176-A
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

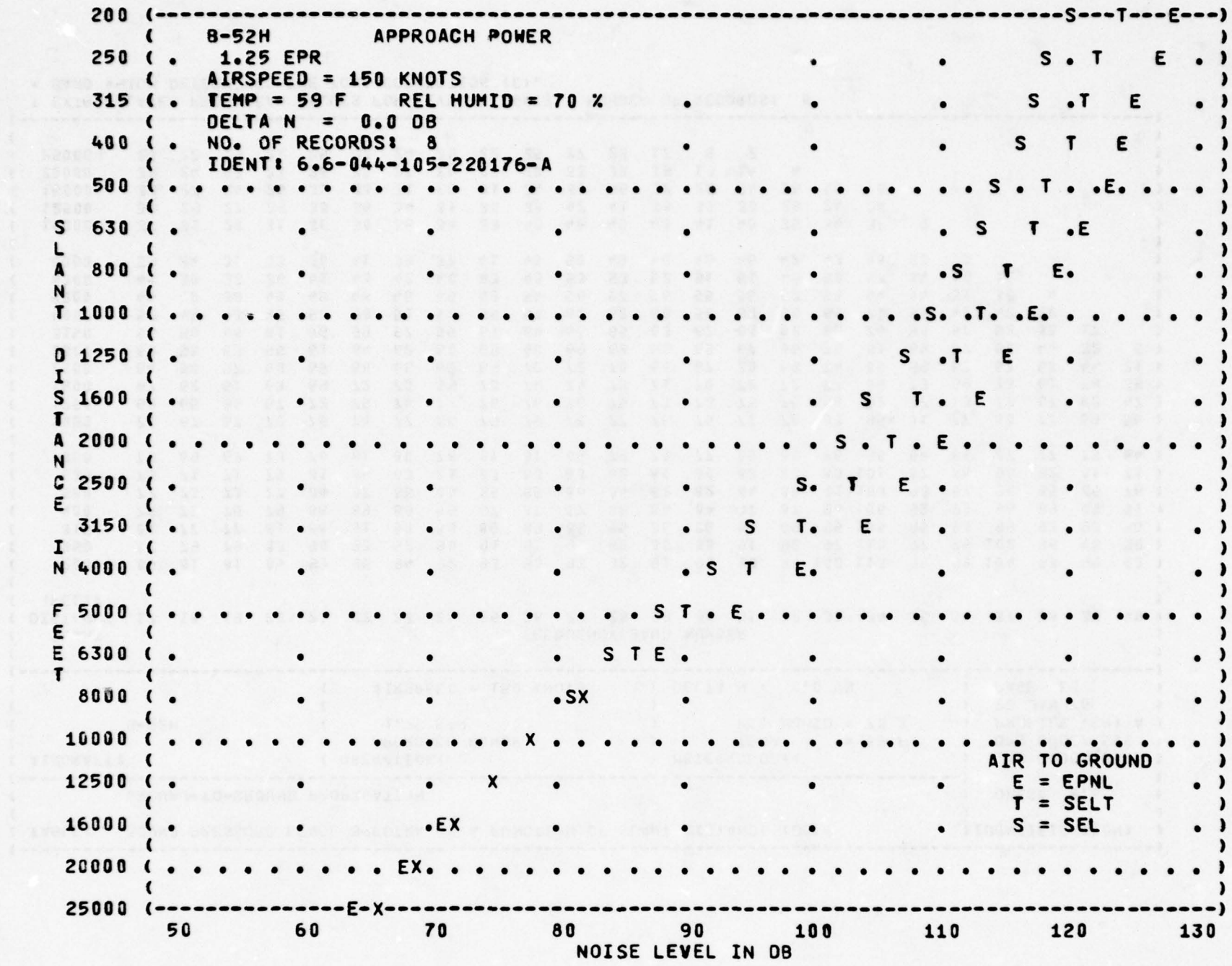

B-52H APPROACH POWER
1.25 EPR
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-044-105-220176-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: B-52H

OPERATION: APPROACH POWER, 1.25 EPR, AIRSPEED = 150 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 044
OPS CODE: 105
PROFILE VER: A
22 JAN 76
PAGE L3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	85	81	81	85	92	95	94	92	93	93	93	92	91	90	93	94	100	113	99	98	104	97	99	93
250	83	79	79	83	90	93	92	90	91	91	91	90	88	88	91	92	97	110	97	95	102	95	96	90
315	81	77	77	81	88	91	90	88	89	89	89	88	86	86	89	89	95	108	95	93	99	92	93	86
400	79	75	75	79	86	89	88	86	87	87	87	86	84	84	87	87	93	106	92	90	96	89	89	81
500	77	73	73	77	84	87	85	84	85	85	85	84	82	82	84	85	91	103	90	87	94	85	85	76
630	75	71	71	75	81	84	83	81	83	83	83	82	80	80	82	83	88	101	87	84	90	82	81	71
800	73	69	69	73	78	81	80	78	81	81	80	79	78	77	80	80	86	98	84	81	87	77	75	64
1000	71	67	67	70	75	78	77	75	79	79	78	77	76	75	77	78	83	95<	81	77	83	73	69	56
1250	69	65	64	67	72	75	74	72	76	76	76	75	73	73	75	75	80	92	77	73	78	67	62	47
1600	67	62	61	63	69	72	70	69	73	74	74	73	71	70	72	72	77	89	73	69	73	61	54	35
2000	64	58	57	60	65	68	66	65	69	72	72	70	68	67	70	69	74	85	69	63	67	53	44	21
2500	60	55	53	55	61	64	62	60	65	68	69	68	66	65	67	66	70	81	64	57	60	44	32	5
3150	56	50	48	51	56	59	57	55	61	64	66	65	63	62	63	62	66	76	58	50	52	33	17	
4000	52	45	43	45	50	53	51	50	55	59	62	62	60	58	60	58	61	70	51	41	42	20		
5000	46	40	38	40	45	48	46	45	49	54	58	57	56	55	56	53	56	64	44	31	30	4		
6300	41	36	33	36	41	43	42	40	43	48	53	53	52	51	51	48	50	57	34	19	16			
8000	39	34	31	33	38	41	39	37	41	45	50	49	48	46	46	42	43	48	23	3				
10000	37	31	29	31	36	38	36	34	38	42	46	45	43	41	40	35	34	37	9					
12500	35	29	27	29	33	36	34	31	34	38	42	41	38	35	33	26	24	24						
16000	33	27	24	26	31	33	31	28	31	34	38	36	32	28	24	16	11	8						
20000	30	24	22	23	28	30	27	24	27	30	33	30	25	19	14	4								
25000	28	22	19	21	25	27	24	20	22	25	27	23	17	9	2									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
B-52H

OPERATION:
APPROACH POWER
1.25 EPR

AIRSPEED = 150 KNOTS

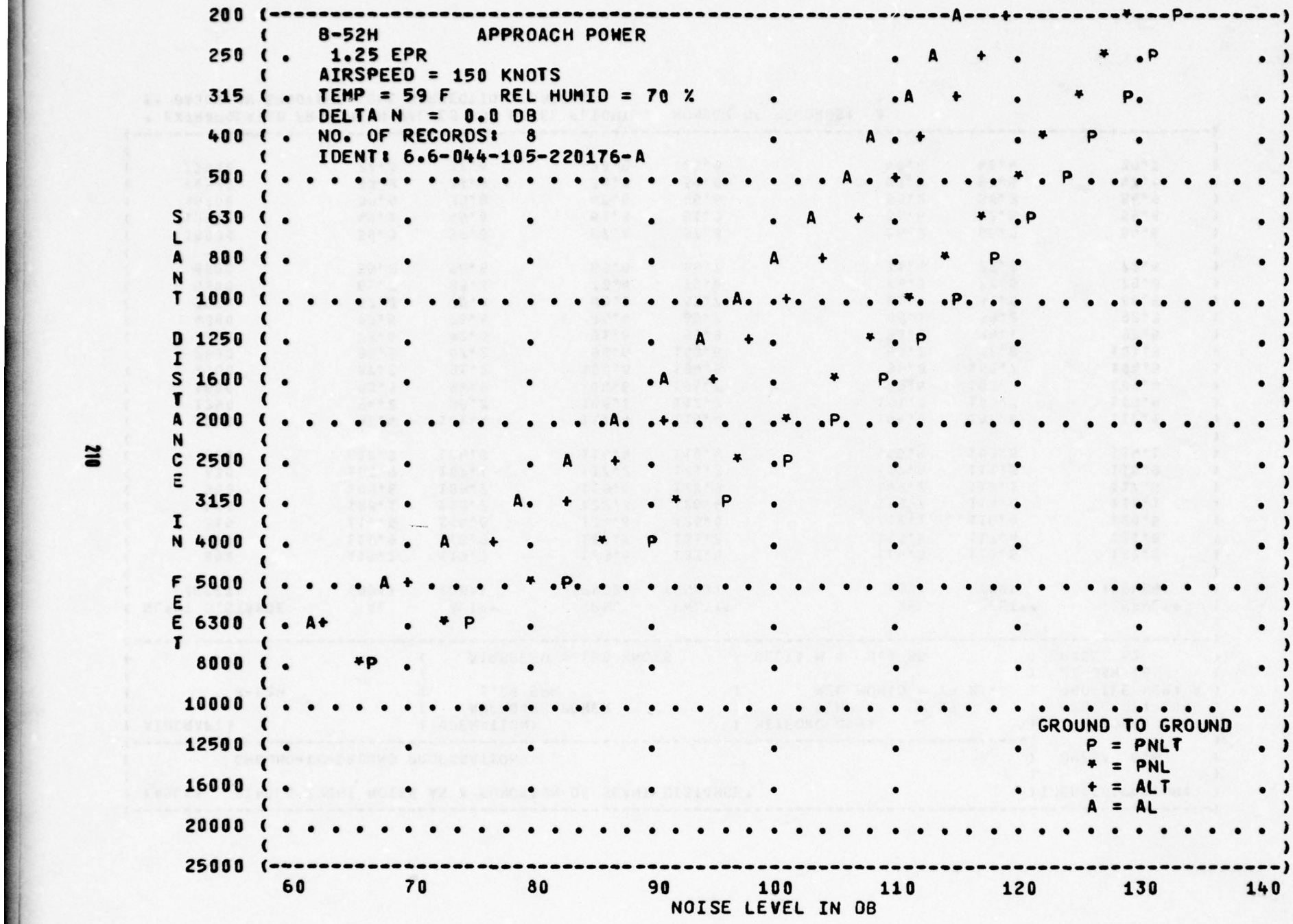
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %

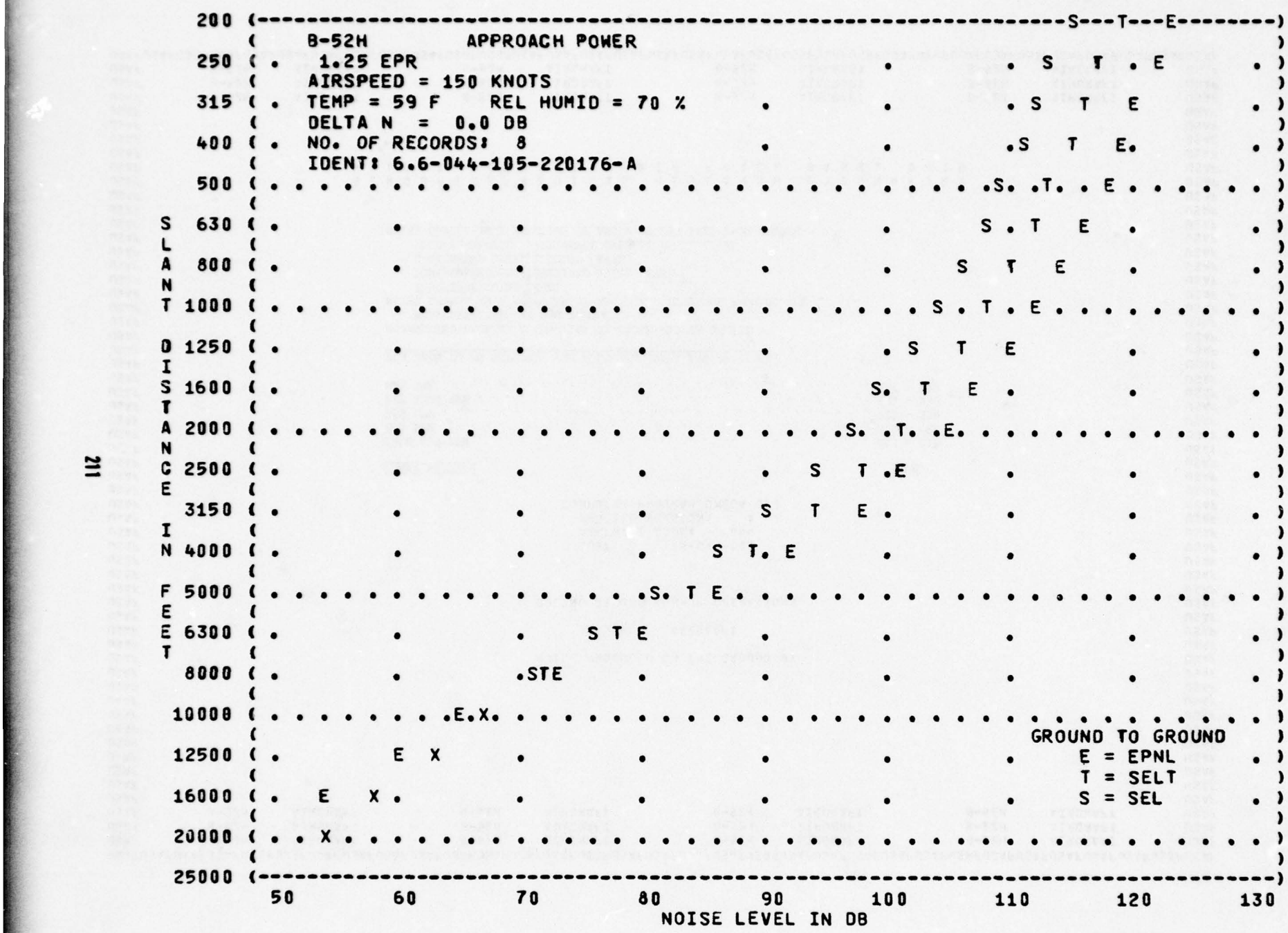
DELTA N = 0.0 DB

A/C CODE: 044
OPS CODE: 105
PROFILE VER: A
22 JAN 76
PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	115.2	119.2	129.4	133.4	114.8	118.6	123.1
250	112.9	116.9	127.1	131.2	113.5	117.4	121.8
315	110.5	114.6	124.8	128.8	112.1	116.0	120.5
400	108.1	112.2	122.3	126.4	110.7	114.6	119.1
500	105.6	109.7	119.8	123.9	109.2	113.1	117.5
630	103.0	107.1	117.2	121.2	107.6	111.5	115.9
800	100.3	104.3	114.4	118.4	105.9	109.8	114.1
1000	97.4	101.4	111.4	115.4	104.0	107.8	112.1
1250	94.2	98.3	108.1	112.2	101.8	105.7	109.9
1600	90.8	94.9	104.6	108.7	99.4	103.3	107.4
2000	87.2	91.2	100.8	104.9	96.8	100.7	104.5
2500	83.1	87.2	96.6	100.6	93.7	97.6	101.3
3150	78.6	82.6	91.8	95.9	90.2	94.1	97.5
4000	73.5	76.8	86.4	89.7	86.1	89.2	92.3
5000	67.8	70.3	80.3	82.7	81.4	83.8	86.5
6300	61.7	63.3	73.4	75.0	76.3	77.8	79.8
8000	55.8	56.6	65.9	66.7	71.4	72.2	72.5
10000	50.3	50.3	57.8	57.8	66.9	66.9	64.6
12500	45.0	45.0	51.9	51.9	62.6	62.6	59.8
16000	39.6	39.6	45.6	45.6	58.2	58.2	54.5
20000	33.9	33.9	38.0	38.0	53.5	53.5	47.8
25000	27.8	27.8	28.9	28.9	48.4	48.4	39.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


8-52H APPROACH POWER
1.25 EPR
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-044-105-220176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB


B-52H APPROACH POWER
1.25 EPR
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-044-105-220176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL

USAF B-52H AIRCRAFT B-52H AIRCRAFT B-52H AIRCRAFT B-52H AIRCRAFT USAF

NOISE PRODUCED ON THE GROUND BY

B-52H AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 75-044-001
AIRCRAFT CODE: 044
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING	PAGE
IDLE 60% RPM	213 - 218
80% RPM	219 - 224
95% RPM	225 - 230
NRT 100% RPM	231 - 236
MAX PWR	237 - 242

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
- NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
- PERCEIVED NOISE LEVEL
- TONE-CORRECTED, PERCEIVED NOISE LEVEL
- A-WEIGHTED OVERALL SOUND LEVEL
- TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 01
AIRCRAFT CODE 044
OPERATION CODE 06013
PROFILE VERSION A
03 MAY 76
PAGE C1

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
IDLE, 60% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	62	63	61	61	61	61	63	64	63	64	66	65	65	65	63	63	64	63	59
63	65	67	65	64	68	68	70	68	67	69	69	69	69	69	69	65	64	63	60
80	67	67	68	67	67	67	68	68	69	69	69	70	69	69	68	66	65	62	59
100	67	68	67	67	69	69	69	69	71	71	70	69	69	69	67	63	61	65	60
125	68	67	67	67	67	69	71	70	70	69	70	71	69	69	68	63	61	62	71
160	65	65	66	64	66	66	67	67	68	67	66	66	66	66	65	60	59	61	57
200	69	68	68	68	69	70	69	71	69	69	67	67	69	66	66	63	59	62	59
250	70	70	69	69	68	68	68	68	68	70	68	68	69	68	68	63	56	62	53
315	70	70	70	70	70	70	70	67	69	68	68	68	66	70	68	61	54	58	52
400	70	70	69	68	68	68	70	70	71	71	69	69	69	69	69	63	50	54	50
500	70	70	70	70	70	69	71	70	69	70	70	69	69	68	66	63	48	48	50
630	67	68	68	67	67	66	67	66	67	67	67	69	67	66	64	60	46	48<	49<
800	70	71	71	70	70	69	70	68	67	69	66	69	66	66	63	60	50	47	49<
1000	73	73	74	74	73	73	73	70	69	69	68	69	68	66	63	60	51	52	48
1250	74	75	76	75	73	74	74	71	69	69	68	69	70	67	64	62	52	52	49
1600	73	75	75	75	73	73	74	69	69	68	68	68	69	66	65	62	51	53	51
2000	83	86	85	85	84	86	87	80	81	76	76	75	78	77	75	70	61	64	61
2500	82	86	85	87	84	83	87	79	81	75	77	74	76	76	73	69	59	59	57
3150	76	76	78	77	76	76	76	72	71	69	68	68	69	66	63	61	52	50	49
4000	82	82	82	82	82	79	82	76	75	73	72	73	72	71	69	63	55	55	52
5000	79	79	79	79	81	78	78	74	74	71	70	72	72	69	66	62	54	53	49
6300	83	82	82	82	82	81	80	78	78	74	75	75	76	72	70	65	56	54	51
8000	76	79	79	79	78	76	78	74	74	73	73	73	73	71	68	62	53	51	49
10000	77	77	78	77	77	76	76	73	72	70	70	73	73	70	65	60	50	49	46
OVERALL	91	92	92	92	91	91	92	87	87	85	85	85	85	84	82	78	72	73	73

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
IDLE, 60% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 01
AIRCRAFT CODE 044
OPERATION CODE 06013
PROFILE VERSION A
03 MAY 76
PAGE 01

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	106.4	108.4	107.8	108.4	106.9	106.7	108.2	102.9	103.5	100.3	100.5	99.8	100.8	99.9	97.3	92.9	83.8	85.3	82.7
250	104.0	106.1	105.4	106.1	104.5	104.5	105.9	100.6	101.2	97.9	98.2	97.4	98.5	97.5	95.0	90.6	81.5	83.0	80.4
315	101.6	103.7	103.1	103.7	102.2	102.1	103.6	98.2	98.8	95.6	95.8	94.8	96.1	95.2	92.7	88.3	79.1	80.7	78.1
400	99.0	101.3	100.6	101.3	99.7	99.7	101.1	95.7	96.4	93.1	93.3	92.3	93.7	92.8	90.2	85.8	76.7	78.3	75.7
500	96.4	98.7	98.0	98.7	97.1	97.2	98.6	93.2	93.8	90.6	90.8	89.8	91.2	90.2	87.7	83.3	74.1	75.8	73.1
630	93.7	96.0	95.3	96.0	94.4	94.6	95.9	90.5	91.1	87.9	88.1	87.1	88.5	87.5	85.0	80.6	71.4	73.1	70.5
800	90.8	93.2	92.5	93.2	91.6	91.8	93.1	87.6	88.3	85.0	85.2	84.3	85.7	84.7	82.2	77.8	68.6	70.3	67.6
1000	87.8	90.2	89.5	90.1	88.5	88.9	90.1	84.6	85.3	82.0	82.2	81.3	82.8	81.7	79.3	74.8	65.5	67.4	64.6
1250	84.5	86.9	86.2	86.9	85.2	85.7	86.8	81.3	82.0	78.8	79.0	78.1	79.6	78.4	76.1	71.6	62.2	64.1	61.3
1600	81.6	83.4	82.6	83.3	81.6	82.4	83.3	77.8	78.5	75.3	75.4	74.6	76.2	74.9	72.7	68.3	58.5	60.6	57.8
2000	77.3	79.6	78.8	79.5	77.8	78.8	79.5	74.2	74.7	71.7	71.6	71.0	72.6	71.2	69.1	64.6	54.5	56.7	53.9
2500	73.3	75.4	74.6	75.3	73.5	74.8	75.4	70.2	70.7	67.7	67.4	67.0	68.6	67.2	65.1	60.6	49.9	52.4	49.5
3150	68.9	71.1	70.2	70.6	69.0	70.5	71.0	65.8	66.3	63.3	62.9	62.5	64.1	62.8	60.0	55.8	44.3	47.2	43.9
4000	63.9	66.2	65.3	65.3	64.0	65.5	66.1	60.8	61.3	58.3	57.8	57.4	59.0	57.7	55.4	50.0	37.6	41.0	37.5
5000	58.4	60.7	59.8	59.8	58.5	60.1	60.6	55.1	55.5	52.5	52.1	51.6	53.3	52.0	49.7	44.5	29.4	32.5	29.0
6300	52.6	54.4	53.2	53.5	52.1	53.8	54.3	48.6	49.1	45.8	45.4	44.9	46.9	45.4	42.6	37.0	17.5	22.4	16.2
8000	44.9	47.5	46.5	46.5	44.9	46.8	47.4	40.9	41.7	38.1	37.6	37.1	39.1	37.8	34.5	28.2	5.6	9.2	3.5
10000	36.6	38.3	37.3	37.1	35.6	37.4	38.2	32.3	32.2	31.3	31.0	30.5	30.3	28.1	23.8	13.0			
12500	24.7	25.7	25.8	24.8	24.2	24.1	25.7	22.3	21.8	22.6	21.2	21.0	19.1	17.5	12.5				
16000	9.7	11.8	11.8	9.7	9.3	7.0	11.1	10.2	8.4	10.2	10.2	7.9	7.5	7.1	1.3				
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
IDLE, 60% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 01
AIRCRAFT CODE 044
OPERATION CODE 06013
PROFILE VERSION A
03 MAY 76
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	108.3	110.9	109.9	110.6	109.0	109.4	110.8	104.9	105.4	101.8	102.4	101.4	102.7	101.7	99.3	94.6	85.8	88.0	85.1
250	106.8	108.6	107.6	108.3	106.7	107.1	108.5	102.6	103.2	99.5	100.1	99.0	100.4	99.4	97.0	92.3	83.5	85.7	82.8
315	103.5	106.2	105.2	106.0	104.3	104.8	106.2	100.2	100.8	97.1	97.8	96.4	98.0	97.0	94.6	90.0	81.1	83.4	80.6
400	100.9	103.6	102.7	103.5	101.9	102.4	103.7	97.7	98.3	94.7	95.3	93.9	95.6	94.6	92.2	87.5	78.7	81.0	78.0
500	98.3	101.2	100.2	101.0	99.3	99.9	101.2	95.2	95.8	92.1	92.7	91.4	93.1	92.0	89.6	85.0	76.1	78.4	75.5
630	95.6	98.5	97.5	98.3	96.6	97.2	98.5	92.5	93.1	89.4	90.1	88.7	90.4	89.4	87.0	82.3	73.4	75.8	72.8
800	92.8	95.7	94.6	95.4	93.7	94.5	95.7	89.6	90.3	86.6	87.2	85.9	87.6	86.5	84.1	79.5	70.6	73.0	70.0
1000	89.7	92.7	91.6	92.4	90.7	91.5	92.7	86.6	87.2	83.6	84.2	82.9	84.7	83.5	81.2	76.4	67.5	70.0	67.0
1250	86.4	89.4	88.3	89.1	87.4	88.4	89.5	83.3	84.0	80.3	80.9	79.7	81.5	80.3	78.1	73.3	64.2	66.8	63.7
1600	82.9	85.9	84.7	85.6	83.8	85.0	85.9	79.8	80.4	76.9	77.4	76.2	78.1	76.7	74.7	69.9	60.5	63.3	60.1
2000	79.2	82.1	80.9	81.8	80.0	81.4	82.2	76.2	76.7	73.3	73.6	72.6	74.5	73.1	71.1	66.3	56.5	59.4	56.2
2500	75.2	78.0	76.7	77.6	75.7	77.5	78.0	72.2	72.6	69.2	69.4	68.6	70.5	69.1	67.1	62.3	51.9	55.1	51.9
3150	70.8	73.6	72.3	72.9	71.2	73.1	73.7	67.8	68.2	64.8	64.9	64.1	66.0	64.6	62.6	57.5	46.3	49.9	46.3
4000	65.5	68.2	67.0	67.1	65.8	67.6	68.2	62.4	62.9	59.5	59.4	58.7	60.6	59.1	57.0	52.0	39.2	43.1	39.3
5000	59.5	62.2	61.0	61.2	59.8	61.7	62.2	55.3	56.7	53.4	53.3	52.6	54.5	53.1	50.9	45.6	30.6	34.1	30.4
6300	52.8	55.4	54.4	54.4	53.0	54.8	55.4	49.4	49.9	46.4	46.2	45.5	47.7	46.1	43.4	37.7	18.3	23.5	17.2
8000	45.2	48.0	47.0	46.9	45.4	47.4	48.0	41.3	42.1	38.4	38.0	37.5	39.4	38.1	34.9	28.6	6.0	9.7	3.9
10000	35.6	38.3	37.3	37.1	35.6	37.4	38.2	32.3	32.2	31.3	31.0	30.5	30.3	28.1	23.8	13.0			
12500	24.7	27.7	27.0	24.8	24.2	24.1	25.7	22.3	21.8	22.6	21.2	21.0	19.1	17.5	12.5				
16000	9.7	11.8	11.8	9.7	9.3	7.0	11.1	10.2	8.4	10.2	10.2	7.9	7.5	7.1	1.3				
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
IDLE, 60% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 01
AIRCRAFT CODE 044
OPERATION CODE 06013
PROFILE VERSION A
03 MAY 76
PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	93.2	95.1	94.4	94.9	93.6	93.6	94.0	89.2	89.6	86.2	86.3	85.9	87.1	85.6	83.2	78.7	69.3	70.5	68.0
250	90.9	92.7	92.1	92.5	91.3	91.3	92.5	86.9	87.3	83.9	83.9	83.6	84.8	83.3	80.9	76.5	67.0	68.3	65.8
315	88.4	90.4	89.7	90.2	88.8	89.0	90.2	84.5	84.9	81.5	81.5	81.1	82.4	81.0	78.5	74.1	64.7	66.0	63.6
400	85.9	87.9	87.2	87.7	86.3	86.6	87.6	82.0	82.5	79.0	79.1	78.6	79.9	78.5	76.2	71.8	62.3	63.7	61.3
500	83.3	85.4	84.7	85.2	83.7	84.1	85.3	79.5	80.0	76.5	76.5	76.0	77.4	76.1	73.7	69.3	59.8	61.3	58.9
630	80.6	82.8	82.0	82.5	81.0	81.5	82.7	76.8	77.4	73.9	73.9	73.3	74.8	73.5	71.1	66.8	57.2	58.9	56.4
800	77.6	80.1	79.3	79.8	78.2	78.9	80.1	74.1	74.7	71.3	71.2	70.6	72.1	70.9	68.5	64.2	54.6	56.3	53.9
1000	74.8	77.2	76.4	76.9	75.3	76.1	77.2	71.2	71.8	68.5	68.4	67.6	69.3	68.1	65.8	61.5	51.8	53.6	51.2
1250	71.7	74.2	73.4	73.8	72.2	73.1	74.3	68.2	68.9	65.6	65.5	64.9	66.3	65.2	62.9	58.7	48.9	50.7	48.3
1600	68.5	71.0	70.2	70.6	68.9	70.0	71.1	65.1	65.7	62.6	62.4	61.9	63.3	62.2	59.9	55.7	45.8	47.7	45.3
2000	65.1	67.6	66.7	67.2	65.5	66.6	67.7	61.6	62.4	59.5	59.2	58.7	60.0	58.9	56.7	52.5	42.5	44.4	42.0
2500	61.4	63.9	63.1	63.4	61.7	63.0	63.9	58.2	58.7	56.1	55.7	55.4	56.5	55.4	53.1	49.1	38.9	40.8	38.5
3150	57.4	59.9	59.1	59.3	57.7	59.0	59.9	54.3	54.8	52.4	51.9	51.8	52.7	51.6	49.3	45.3	35.1	36.9	34.6
4000	53.2	55.4	54.8	54.8	53.3	54.6	55.4	50.1	50.4	48.4	47.8	48.0	48.5	47.4	45.1	41.2	30.9	32.6	30.4
5000	48.5	50.5	50.0	49.9	48.5	49.7	50.3	45.4	45.6	44.0	43.2	43.6	43.9	42.8	40.4	36.6	26.2	27.8	25.7
6300	43.3	45.0	44.8	44.5	43.3	44.4	44.8	40.4	40.3	39.3	38.3	39.0	38.9	37.7	35.3	31.6	21.2	22.6	20.6
8000	38.1	39.3	39.4	38.6	37.9	38.6	38.9	35.4	35.1	34.7	33.7	34.6	34.0	32.9	30.5	26.9	16.2	17.3	15.8
10000	32.6	33.5	33.8	33.0	32.4	32.6	32.9	30.2	29.8	30.0	29.0	29.9	28.9	28.0	25.7	22.0	11.0	12.0	11.0
12500	26.9	27.5	27.9	27.0	26.6	26.4	26.9	24.9	24.5	25.0	24.1	24.9	23.8	23.0	20.8	17.1	5.8	6.8	6.3
16000	21.0	21.5	21.8	20.8	20.7	20.0	20.8	19.4	19.0	19.7	18.9	19.5	18.4	17.7	15.7	11.8	.7	1.9	1.8
20000	14.7	15.2	15.3	14.4	14.4	13.6	14.7	13.7	13.3	14.0	13.3	13.7	12.7	12.1	10.3	6.3			
25000	8.1	8.5	8.5	7.7	7.7	6.9	8.2	7.5	7.3	7.9	7.3	7.4	6.7	6.1	4.6	.4			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
IDLE, 60% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 01
AIRCRAFT CODE 044
OPERATION CODE 06013
PROFILE VERSION A
03 MAY 76
PAGE G1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	95.1	97.6	96.5	97.1	95.8	96.3	97.4	91.2	91.0	87.8	88.2	87.5	89.0	87.4	85.1	80.4	71.3	73.2	70.4
250	92.8	95.3	94.2	94.8	93.4	94.0	95.2	88.9	89.3	85.4	85.9	85.1	86.7	85.1	82.8	78.1	69.0	71.0	68.2
315	90.3	92.9	91.8	92.4	91.0	91.7	92.8	86.5	86.9	83.0	83.5	82.7	84.3	82.8	80.5	75.8	66.7	68.7	65.9
400	87.8	90.5	89.3	90.0	88.5	89.3	90.4	84.0	84.5	80.6	81.0	80.2	81.8	80.4	78.1	73.5	64.3	66.4	63.6
500	85.2	87.9	86.8	87.4	85.9	86.8	87.9	81.5	82.0	78.1	78.5	77.6	79.3	77.9	75.7	71.0	61.8	64.0	61.3
630	82.5	85.3	84.1	84.8	83.2	84.2	85.4	78.8	79.3	75.5	75.9	74.9	76.7	75.3	73.1	68.5	59.2	61.5	58.8
800	79.7	82.6	81.4	82.0	80.4	81.5	82.7	76.1	76.6	72.8	73.1	72.2	74.0	72.7	70.5	65.9	56.6	59.0	56.2
1000	76.7	79.8	78.5	79.2	77.5	78.7	79.9	73.2	73.8	70.0	70.3	69.4	71.2	69.9	67.7	63.2	53.8	56.3	53.5
1250	73.6	76.7	75.5	76.1	74.4	75.8	76.9	70.2	70.8	67.2	67.4	66.5	68.2	67.0	64.9	60.4	50.9	53.4	50.6
1500	70.4	73.6	72.5	72.9	71.1	72.6	73.7	67.1	67.7	64.1	64.4	63.5	65.2	64.0	61.8	57.4	47.8	50.3	47.6
2000	67.6	70.1	68.9	69.4	67.6	69.3	70.3	63.8	64.3	61.0	61.1	60.3	61.9	60.8	58.6	54.2	44.5	47.1	44.4
2500	63.3	66.4	65.2	65.7	63.9	65.7	66.6	60.2	60.7	57.6	57.7	57.0	58.4	57.2	55.1	50.7	40.9	43.5	40.8
3150	59.4	62.4	61.2	61.6	59.9	61.7	62.5	56.3	56.7	53.9	53.9	53.4	54.6	53.4	51.3	47.0	37.1	39.6	37.0
4000	54.7	57.4	56.5	56.7	55.1	56.8	57.5	51.7	52.0	49.6	49.4	49.2	50.1	48.9	46.6	42.5	32.5	34.7	32.2
5000	49.6	52.0	51.3	51.3	49.8	51.3	51.9	46.6	46.8	44.9	44.4	44.6	45.1	43.9	41.6	37.6	27.4	29.4	27.1
6300	44.1	46.9	45.7	45.4	44.2	45.4	45.8	41.2	41.1	39.9	39.1	39.6	39.7	38.5	36.1	32.3	22.0	23.6	21.5
8000	38.5	39.8	39.6	39.3	38.4	39.1	39.5	35.8	35.5	35.1	34.1	34.9	34.4	33.3	30.9	27.2	16.6	17.8	16.2
10000	32.6	33.5	33.8	33.0	32.4	32.6	32.9	30.2	29.8	30.0	29.0	29.9	28.9	28.0	25.7	22.0	11.0	12.0	11.0
12500	26.9	27.5	27.9	27.0	26.6	26.4	26.9	24.9	24.5	25.0	24.1	24.9	23.8	23.0	20.8	17.1	5.8	6.8	6.3
16000	21.6	21.5	21.8	20.8	20.7	20.8	20.8	19.4	19.0	19.7	18.9	19.5	18.4	17.7	15.7	11.8	.7	1.9	1.8
20000	14.7	15.2	15.3	14.4	14.4	13.6	14.7	13.7	13.3	14.0	13.3	13.7	12.7	12.1	10.3	6.3			
25000	8.1	8.9	8.5	7.7	7.7	6.9	8.2	7.5	7.3	7.9	7.3	7.4	6.7	6.1	4.6	.4			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
IDLE, 60% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 01
AIRCRAFT CODE 044
OPERATION CODE 06013
PROFILE VERSION A
03 MAY 76
PAGE J1

P=PNLT A=AL T=ALT

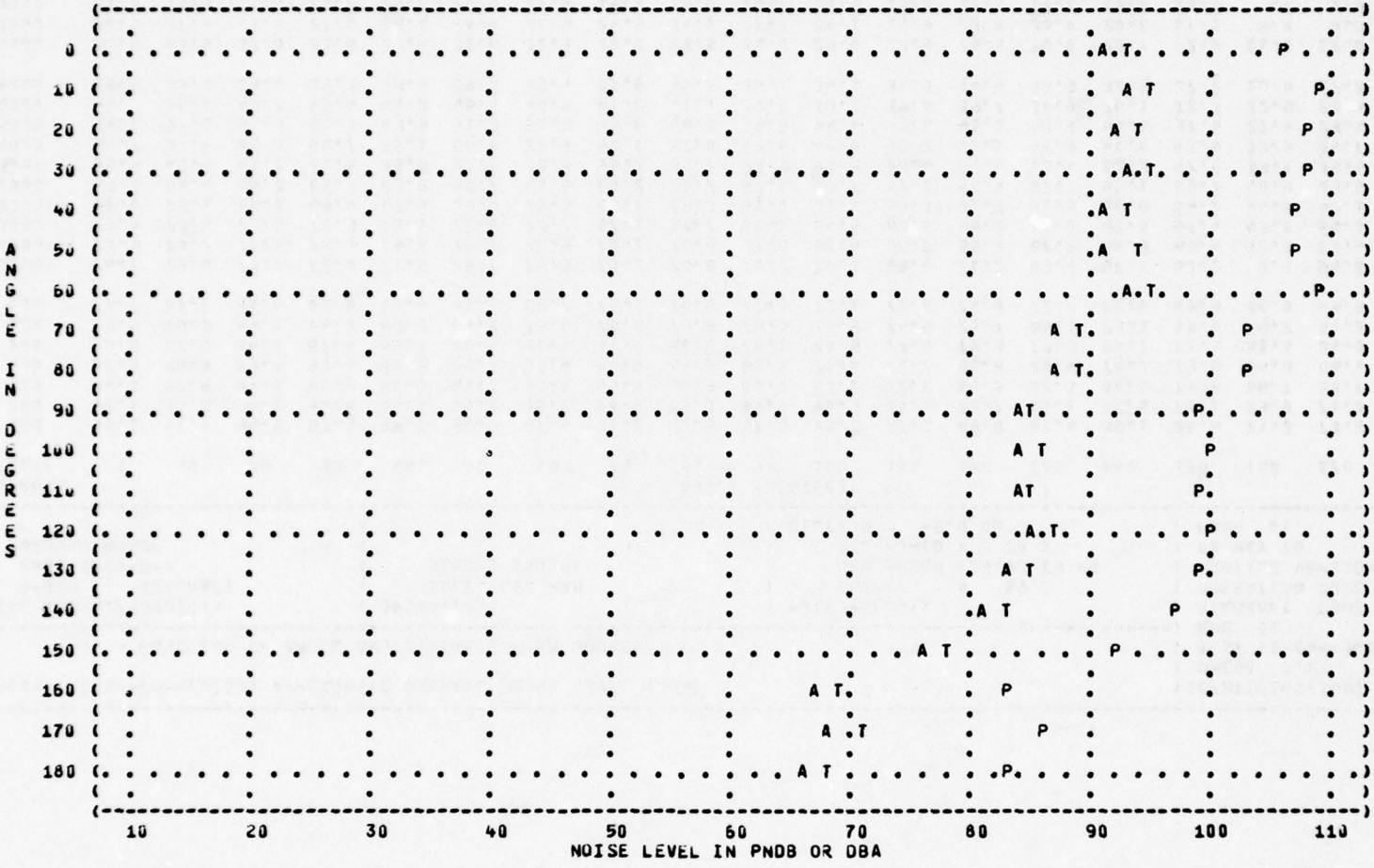


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 02
AIRCRAFT CODE 044
OPERATION CODE 01019
PROFILE VERSION A
03 MAY 76
PAGE C2

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	75	72	73	72	72	74	75	75	75	76	74	77	77	76	76	73	73	63	53
63	76	76	75	73	76	78	78	77	79	79	81	80	77	80	79	76	72	62	52
80	76	78	77	79	80	79	80	77	79	82	83	82	80	81	80	77	71	61	51
100	78	78	81	82	81	81	81	82	83	82	83	83	81	81	79	74	68	58	48
125	78	78	81	78	79	81	81	82	82	81	83	83	84	81	81	74	72	62	52
160	77	78	78	78	78	78	79	79	79	79	80	80	79	78	79	72	66	56	46
200	80	80	80	81	81	80	80	82	81	79	82	81	80	78	77	71	65	55	45
250	80	81	79	79	78	80	78	79	79	80	80	80	79	78	77	71	61	51	41
315	82	81	83	81	81	80	81	80	80	80	82	81	78	80	77	71	58	48	38
400	83	83	84	82	83	83	81	82	82	82	82	82	82	80	78	73	58	48	38
500	81	82	82	81	83	82	82	82	82	82	83	83	82	78	76	72	58<	48	38
630	81	81	82	82	81	81	81	81	80	80	80	80	80	79	75	69	59	49	39
800	82	83	84	84	83	83	82	83	83	82	80	80	77	76	73	70	55	45	35
1000	83	82	84	84	82	83	81	81	80	79	79	79	78	75	73	68	56	46	36
1250	84	84	85	85	84	84	81	82	79	79	79	79	79	77	73	69	57	47	37
1600	84	84	84	84	84	84	82	82	80	79	79	78	79	77	73	69	59	49	39
2000	93	93	91	93	93	90	91	88	87	84	86	86	87	85	81	78	70	60	50
2500	93	94	93	95	93	91	92	88	87	85	86	88	87	86	80	74	67	57	47
3150	96	96	98	98	99	100	99	97	91	90	88	89	90	87	81	76	67	57	47
4000	98	96	97	96	99	100	98	94	89	88	87	87	86	85	79	74	66	56	46
5000	90	90	90	90	91	90	88	86	84	83	83	83	84	81	76	71	60	50	40
6300	94	93	94	95	94	93	93	91	89	87	88	88	88	85	78	75	63	53	43
8000	92	92	92	92	94	94	92	90	88	85	86	86	85	83	78	73	62	52	42
10000	90	91	90	91	92	91	91	88	86	85	85	85	85	83	78	71	58	48	38
OVERALL	104	103	104	104	105	105	104	102	98	97	97	98	97	95	92	87	80	70	60

XXX< = EXTRAPOLATED OR INTERPOLATED SPL
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 02
AIRCRAFT CODE 044
OPERATION CODE 01019
PROFILE VERSION A
03 MAY 76
PAGE 02

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	120.5	119.9	120.7	120.6	121.8	122.1	121.1	119.3	115.1	113.9	113.4	114.1	114.0	111.8	106.9	102.0	92.7	82.5	72.1
250	116.1	117.5	118.3	118.3	119.4	119.7	118.8	116.9	112.8	111.6	111.0	111.8	111.6	109.4	104.6	99.7	90.4	80.1	69.6
315	115.7	115.0	115.9	115.9	117.0	117.2	116.4	114.5	110.4	109.2	108.6	109.4	109.2	107.0	102.2	97.3	88.0	77.7	67.1
400	113.2	112.4	113.4	113.4	114.5	114.6	113.9	112.0	107.9	106.7	106.1	106.9	106.8	104.5	99.7	94.8	85.6	75.3	64.6
500	110.5	109.8	110.8	110.8	111.8	111.9	111.2	109.4	105.2	104.1	103.5	104.3	104.1	101.9	97.1	92.2	83.1	72.7	61.9
630	107.7	107.0	108.0	108.0	109.0	109.0	108.4	106.6	102.5	101.3	100.8	101.6	101.4	99.2	94.3	89.5	80.4	70.0	59.0
800	104.8	104.0	105.0	105.0	106.1	106.0	105.5	103.7	99.5	98.4	97.8	98.6	98.4	96.2	91.4	86.6	77.6	67.1	56.1
1000	101.6	100.9	101.9	101.8	102.9	102.8	102.3	100.5	96.4	95.3	94.7	95.5	95.3	93.1	88.3	83.6	74.7	64.0	52.7
1250	98.1	97.4	98.4	98.4	99.4	99.3	98.8	97.1	92.9	91.8	91.3	92.1	91.9	89.7	85.0	80.4	71.5	60.6	49.1
1600	94.4	93.7	94.7	94.6	95.6	95.5	95.0	93.3	89.2	88.1	87.6	88.4	88.2	86.0	81.5	77.1	68.0	57.0	44.4
2000	90.2	89.6	90.5	90.5	91.5	91.4	90.9	89.2	85.1	84.1	83.5	84.3	84.1	82.0	77.8	73.4	64.2	52.9	39.2
2500	85.6	85.2	85.9	85.9	86.8	86.7	86.2	84.6	80.6	79.6	79.3	80.1	79.7	77.7	73.7	69.3	60.0	48.4	33.5
3150	80.4	80.4	80.8	81.0	81.6	81.5	81.0	79.4	75.6	74.6	74.8	75.4	75.2	73.0	69.3	64.9	55.1	42.4	26.4
4000	75.1	75.3	75.0	75.7	75.7	75.6	75.1	73.6	70.5	68.9	69.8	70.1	70.2	67.9	64.2	59.8	49.4	36.0	17.9
5000	69.6	69.7	69.2	70.2	69.9	68.9	68.4	67.0	64.9	63.4	64.3	64.6	64.7	62.4	58.7	54.0	42.7	26.8	7.3
6300	63.4	63.6	63.1	64.1	63.8	62.3	61.9	60.4	58.9	57.6	58.3	58.6	58.6	56.1	52.3	47.2	34.6	14.5	
8000	56.9	57.1	56.6	57.5	57.1	55.8	55.4	54.1	53.1	52.3	52.9	53.0	52.1	49.3	45.4	39.8	22.7	2.2	
10000	49.3	49.6	50.0	50.1	49.6	48.9	48.3	48.0	47.3	47.0	47.4	47.6	46.1	43.0	39.5	32.8	10.9		
12500	41.6	42.6	42.8	42.7	42.4	42.2	41.6	41.4	40.7	40.8	41.3	41.3	39.4	36.1	32.6	24.0			
16000	34.1	35.1	35.5	34.8	35.2	34.7	34.3	34.3	33.8	33.7	34.4	34.3	32.3	28.7	24.0	15.1			
20000	29.0	26.3	28.1	25.9	26.5	26.4	26.2	25.2	26.1	26.1	26.8	26.8	23.8	17.9	13.1	6.2			
25000	11.7	14.0	15.6	12.3	14.3	14.0	12.4	13.9	13.8	13.9	15.4	15.4	12.5	7.2	2.2				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 02
AIRCRAFT CODE 044
OPERATION CODE 01019
PROFILE VERSION A
03 MAY 76
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	121.9	121.2	121.7	121.9	123.5	124.4	122.7	121.3	116.2	115.0	114.6	115.2	115.4	112.9	108.3	103.9	95.0	84.8	74.4
250	119.6	118.8	119.4	119.6	121.1	122.0	120.3	119.0	113.9	112.0	112.3	112.9	113.1	110.6	106.0	101.6	92.7	82.4	72.0
315	117.1	116.3	117.0	117.2	118.7	119.5	117.9	116.6	111.5	110.3	109.9	110.5	110.7	108.2	103.6	99.2	90.4	80.1	69.5
400	114.6	113.8	114.5	114.7	116.2	116.9	115.4	114.1	109.0	107.8	107.4	108.0	108.2	105.7	101.1	96.7	87.9	77.6	66.9
500	112.0	111.1	111.8	112.1	113.5	114.2	112.8	111.5	106.4	105.1	104.8	105.4	105.6	103.0	98.5	94.1	85.4	75.0	64.2
630	109.2	108.3	109.1	109.3	110.7	111.2	110.0	108.7	103.6	102.4	102.0	102.6	102.8	100.3	95.8	91.4	82.8	72.3	61.3
800	106.2	105.4	106.1	106.3	107.7	108.3	107.0	105.8	100.6	99.4	99.1	99.7	99.9	97.3	92.9	88.5	80.0	69.4	58.4
1000	103.1	102.2	102.9	103.1	104.6	105.1	103.8	102.6	97.5	96.3	96.0	96.6	96.7	94.2	89.7	85.5	77.0	66.3	55.0
1250	99.6	98.7	99.5	99.7	101.1	101.6	100.4	99.2	94.1	92.9	92.5	93.1	93.3	90.8	86.4	82.3	73.9	63.0	51.5
1600	95.8	95.0	95.7	95.9	97.3	97.8	96.6	95.4	90.3	89.2	88.9	89.4	89.6	87.1	82.9	79.0	70.4	59.4	46.7
2000	91.7	90.9	91.6	91.8	93.2	93.7	92.4	91.3	86.3	85.1	84.8	85.4	85.5	83.1	79.2	75.3	66.5	55.2	41.5
2500	87.1	86.5	87.0	87.2	88.5	89.0	87.8	86.7	81.6	80.7	80.6	81.2	81.1	78.9	75.2	71.2	62.3	50.7	35.8
3150	81.9	81.6	81.8	82.3	83.3	83.8	82.6	81.5	76.7	75.6	76.1	76.5	76.7	74.1	70.7	66.8	57.4	44.7	28.7
4000	76.3	76.3	75.8	76.8	77.1	77.4	76.3	75.2	71.3	69.8	70.9	71.0	71.4	68.8	65.3	61.3	51.3	37.8	19.7
5000	70.4	70.5	69.8	70.9	71.0	70.2	69.3	68.2	65.0	64.1	65.1	65.3	65.6	63.0	59.6	55.1	44.1	28.2	8.7
6300	63.9	64.1	63.5	64.6	64.4	63.2	62.6	61.2	59.4	58.0	58.8	59.0	59.2	56.5	52.9	48.0	35.5	15.4	
8000	57.2	57.3	56.8	57.8	57.5	56.2	55.7	54.5	53.5	52.5	53.1	53.2	52.4	49.6	45.7	40.2	23.2	2.6	
10000	49.3	49.0	50.0	50.1	49.6	48.9	48.3	48.0	47.3	47.0	47.4	47.6	46.1	43.0	39.5	32.8	10.9		
12500	41.6	42.0	42.8	42.7	42.4	42.2	41.6	41.4	40.7	40.8	41.3	41.3	39.4	36.1	32.6	24.0			
16000	34.1	35.1	35.5	34.8	35.2	34.7	34.3	34.3	33.8	33.7	34.4	34.3	32.3	28.7	24.0	15.1			
20000	25.0	26.3	26.1	25.9	26.5	26.4	26.2	25.2	26.1	26.1	26.8	26.8	23.8	17.9	13.1	6.2			
25000	11.7	14.0	15.6	12.3	14.3	14.0	12.4	13.9	13.8	13.9	15.4	15.4	12.5	7.2	2.2				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 02
AIRCRAFT CODE 044
OPERATION CODE 01019
PROFILE VERSION A
03 MAY 76
PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	106.6	106.1	106.6	106.7	107.9	107.9	106.9	104.4	100.4	99.0	98.7	99.5	99.3	97.1	92.0	87.4	78.3	68.3	58.3
250	104.2	103.7	104.2	104.4	105.5	105.5	104.5	102.0	98.0	96.6	96.3	97.1	97.0	94.7	89.7	85.1	76.0	66.0	56.0
315	101.7	101.2	101.7	101.9	103.0	103.1	102.0	99.6	95.5	94.1	93.9	94.6	94.5	92.3	87.3	82.7	73.7	63.7	53.7
400	99.2	98.7	99.1	99.4	100.5	100.5	99.5	97.0	93.0	91.6	91.3	92.1	92.0	89.7	84.8	80.3	71.3	61.3	51.3
500	96.5	96.0	96.5	96.7	97.8	97.8	96.8	94.3	90.3	88.9	88.7	89.5	89.4	87.1	82.3	77.8	68.8	58.8	48.8
630	93.7	93.3	93.7	94.0	94.9	94.9	94.0	91.5	87.6	86.2	86.0	86.7	86.7	84.4	79.7	75.1	66.2	56.2	46.2
800	90.8	90.4	90.7	91.0	92.0	91.9	91.0	88.6	84.7	83.4	83.2	83.9	83.8	81.6	77.0	72.5	63.5	53.5	43.5
1000	87.6	87.3	87.6	88.0	88.8	88.7	87.8	85.5	81.7	80.4	80.2	81.0	80.9	78.7	74.1	69.7	60.7	50.7	40.7
1250	84.3	84.0	84.3	84.7	85.4	85.2	84.4	82.2	78.2	77.3	77.2	77.9	77.8	75.6	71.2	66.7	57.7	47.7	37.7
1600	80.8	80.6	80.7	81.3	81.8	81.4	80.7	78.6	75.3	74.1	74.0	74.7	74.5	72.3	68.1	63.7	54.5	44.5	34.5
2000	77.0	76.9	77.0	77.6	77.8	77.4	76.8	74.8	71.8	70.7	70.7	71.3	71.1	68.9	64.9	60.5	51.1	41.1	31.1
2500	72.9	72.9	72.9	73.6	73.6	73.1	72.5	70.7	68.2	67.2	67.2	67.7	67.4	65.2	61.4	57.0	47.4	37.4	27.4
3150	68.5	68.7	69.7	69.3	69.1	68.5	67.9	66.4	64.3	63.5	63.5	63.8	63.5	61.3	57.6	53.3	43.4	33.4	23.4
4000	63.9	64.2	64.2	64.8	64.4	63.6	63.1	61.8	60.3	59.5	59.4	59.7	59.2	57.0	53.5	49.2	39.0	29.0	19.0
5000	59.0	59.3	59.4	59.9	59.3	58.6	57.9	57.0	55.8	55.1	54.9	55.1	54.5	52.4	48.9	44.7	34.2	24.2	14.2
6300	53.7	54.0	54.4	54.8	54.0	53.4	52.6	52.0	51.1	50.5	50.2	50.3	49.6	47.4	44.1	39.9	28.9	18.9	8.9
8000	48.6	48.9	49.5	49.7	48.8	48.5	47.7	47.4	46.8	46.3	46.0	46.0	45.0	42.9	39.8	35.4	23.8	13.8	3.8
10000	43.4	43.7	44.3	44.4	43.6	43.6	42.8	42.7	42.2	41.9	41.5	41.5	40.4	38.2	35.3	30.8	18.8	8.8	
12500	38.0	38.4	39.3	39.0	38.3	38.3	37.7	37.7	37.3	37.1	36.8	36.8	35.5	33.4	30.6	26.0	13.9	3.9	
16000	32.3	32.8	33.7	33.2	32.7	32.8	32.3	32.3	32.1	31.9	31.8	31.8	30.4	28.3	25.6	20.9	9.0		
20000	26.3	26.8	27.7	27.0	26.8	26.8	26.5	26.5	26.3	26.2	26.3	26.3	24.9	22.8	20.3	15.5	4.2		
25000	19.9	20.4	21.2	20.4	20.4	20.4	20.1	20.2	20.1	20.0	20.3	20.3	19.0	16.8	14.6	9.7			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 02
AIRCRAFT CODE 044
OPERATION CODE 01019
PROFILE VERSION A
03 MAY 76
PAGE G2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	108.0	107.4	107.6	108.0	109.0	110.2	108.4	106.5	101.5	100.0	100.0	100.5	100.8	98.2	93.4	89.3	80.6	70.6	60.6
250	105.7	105.0	105.2	105.7	107.2	107.8	106.0	104.1	99.1	97.6	97.6	98.2	98.4	95.8	91.1	87.0	78.3	68.3	58.3
315	103.2	102.6	102.8	103.2	104.7	105.4	103.6	101.6	96.7	95.2	95.2	95.7	96.0	93.4	88.7	84.6	76.0	66.0	56.0
400	100.6	100.0	100.2	100.7	102.1	102.8	101.0	99.1	94.1	92.6	92.6	93.2	93.5	90.9	86.2	82.2	73.6	63.6	53.6
500	98.0	97.4	97.5	98.0	99.5	100.1	98.3	96.4	91.4	90.0	90.0	90.5	90.8	88.2	83.7	79.7	71.1	61.1	51.1
630	95.2	94.6	94.7	95.2	96.6	97.2	95.5	93.6	88.7	87.2	87.3	87.8	88.1	85.5	81.1	77.0	68.5	58.5	48.5
800	92.2	91.7	91.8	92.3	93.6	94.2	92.5	90.7	85.8	84.4	84.4	85.0	85.3	82.7	78.4	74.4	65.8	55.8	45.8
1000	89.1	88.6	88.7	89.3	90.5	91.0	89.4	87.6	82.8	81.4	81.5	82.0	82.4	79.8	75.6	71.6	63.0	53.0	43.0
1250	85.8	85.4	85.3	86.0	87.1	87.5	86.0	84.2	79.7	78.3	78.5	79.0	79.3	76.7	72.6	68.6	60.0	50.0	40.0
1600	82.2	81.9	81.8	82.5	83.4	83.7	82.3	80.7	76.4	75.1	75.3	75.8	76.0	73.4	69.5	65.6	56.8	46.8	36.8
2000	78.4	78.2	78.0	78.8	79.5	79.7	78.3	76.9	72.9	71.8	72.0	72.4	72.6	70.0	66.3	62.4	53.4	43.4	33.4
2500	74.4	74.3	74.0	74.9	75.3	75.4	74.1	72.8	69.3	68.2	68.5	68.8	68.9	66.3	62.8	58.9	49.8	39.8	29.8
3150	70.0	70.0	69.7	70.6	70.8	70.8	69.5	68.5	65.5	64.5	64.7	64.9	65.0	62.4	59.0	55.2	45.8	35.8	25.8
4000	65.1	65.2	65.0	65.8	65.7	65.5	64.3	63.5	61.1	60.3	60.4	60.5	60.4	57.9	54.6	50.7	40.9	30.9	20.9
5000	59.8	60.1	60.0	60.7	60.3	60.0	58.9	58.3	56.5	55.8	55.7	55.8	55.4	53.0	49.8	45.9	35.6	25.6	15.6
6300	54.3	54.6	54.8	55.3	54.6	54.3	53.3	52.9	51.6	51.0	50.7	50.8	50.2	47.9	44.7	40.7	29.9	19.9	9.9
8000	48.9	49.2	49.7	49.9	49.2	49.0	48.0	47.8	47.0	46.5	46.2	46.2	45.3	43.1	40.1	35.8	24.3	14.3	4.3
10000	43.4	43.7	44.5	44.4	43.6	43.0	42.8	42.7	42.2	41.9	41.5	41.5	40.4	38.2	35.3	30.8	18.8	8.8	
12500	38.0	38.4	39.3	39.0	38.3	38.3	37.7	37.7	37.3	37.1	36.8	36.8	35.5	33.4	30.6	26.0	13.9	3.9	
16000	32.3	32.8	33.7	33.2	32.7	32.8	32.3	32.3	32.1	31.9	31.8	31.8	30.4	28.3	25.6	20.9	9.0		
20000	26.3	26.8	27.7	27.0	26.8	26.8	26.5	26.5	26.3	26.2	26.3	26.3	24.9	22.8	20.3	15.5	4.2		
25000	19.9	20.4	21.2	20.4	20.4	20.4	20.1	20.2	20.1	20.0	20.3	20.3	19.0	16.8	14.6	9.7			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

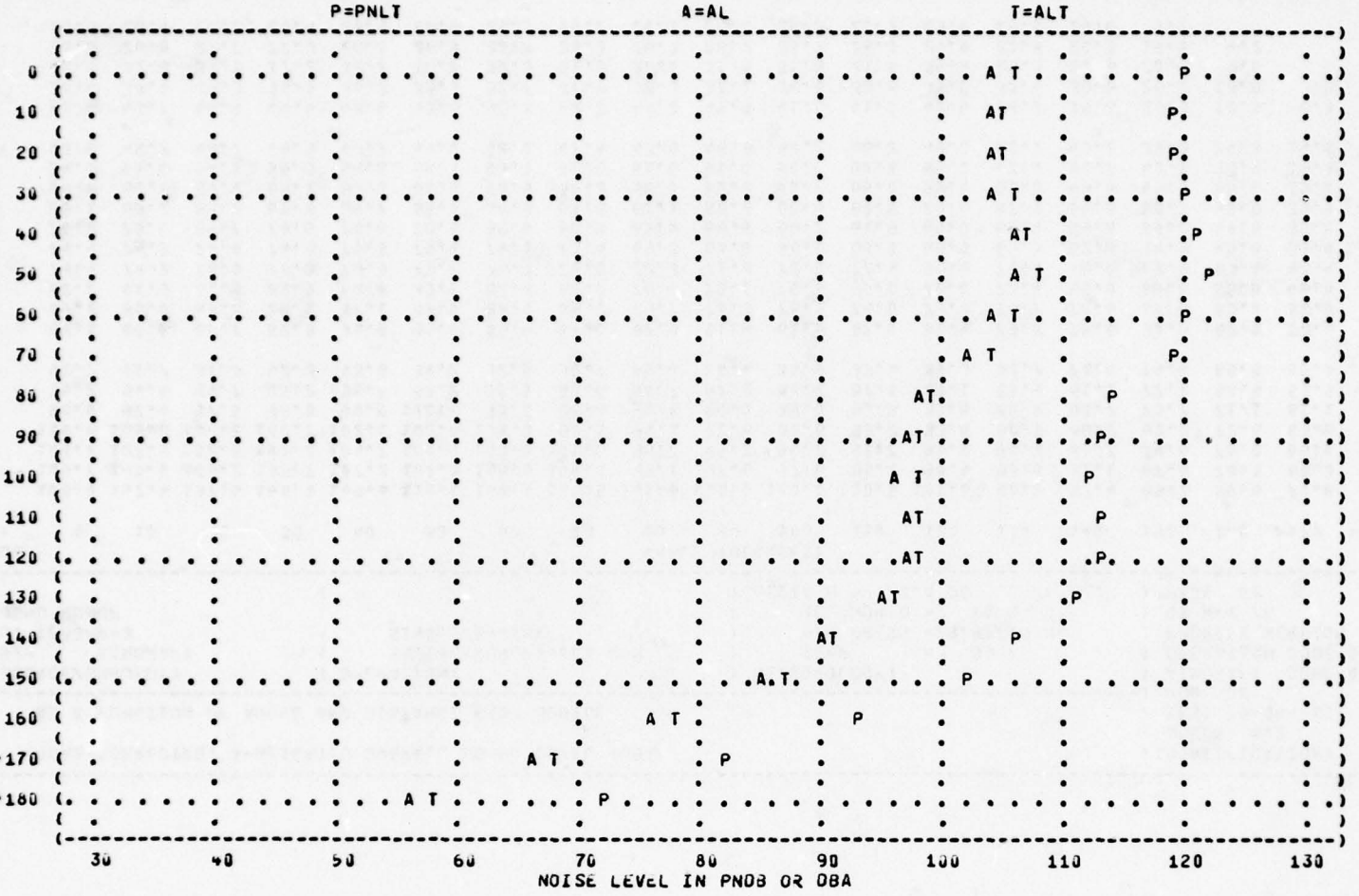
NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 02
AIRCRAFT CODE 044
OPERATION CODE 01019
PROFILE VERSION A
03 MAY 76
PAGE J2

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 03

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 95% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

AIRCRAFT CODE 044
OPERATION CODE 01016
PROFILE VERSION A
03 MAY 76
PAGE C3

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
50	79	78	78	78	77	80	80	83	81	82	84	84	87	90	90	86	79	72	66
63	81	81	78	79	80	83	83	86	84	87	87	87	88	91	91	87	81	74	67
80	81	81	81	83	83	85	86	85	87	89	89	90	93	93	95	91	85	78	71
100	83	82	84	86	86	86	86	88	89	89	89	91	91	96	94	87	81	74	67
125	85	83	86	85	86	88	87	87	90	90	90	91	95	98	99	85	79	72	65
160	85	84	85	86	89	89	89	89	90	91	93	93	95	98	97	83	76	70	63
200	86	86	87	87	88	89	89	91	92	91	96	93	96	96	97	84	77	71	64
250	87	87	88	88	88	89	89	89	92	91	95	93	96	96	94	86	79	73	66
315	89	89	86	89	88	89	89	90	92	92	93	93	94	94	88	81	74	68	61
400	92	92	90	91	90	92	92	92	92	93	95	94	94	94	86	79	73	66	59
500	89	91	91	92	91	92	92	92	93	92	93	93	92	91	85	79	73	66	59
630	89	92	92	92	93	92	91	92	92	91	91	91	94	89	83	77	70	63	57
800	92	95	95	95	95	93	93	93	93	93	91	90	92	88	82	75	68	62	55
1000	90	93	93	92	92	92	92	92	91	90	90	89	91	86	79	75	68	62	55
1250	89	92	90	92	92	92	91	90	89	88	88	88	89	85	79	74	67	60	54
1600	89	92	91	90	91	90	91	89	87	87	87	87	86	82	78	72	65	59	52
2000	96	96	96	95	95	92	92	90	90	88	88	89	88	85	80	77	70	64	57
2500	96	97	95	98	97	94	94	90	90	88	89	90	88	87	81	75	68	62	55
3150	89	92	93	93	94	93	92	89	88	86	87	86	86	82	76	70	64	57	50
4000	94	96	97	98	98	95	95	94	91	90	90	89	88	85	78	72	66	59	52
5000	101	102	104	104	103	102	104	100	99	98	98	98	98	93	85	78	72	65	58
6300	101	103	104	105	104	105	105	102	101	99	99	106	101	97	90	83	76	69	63
8000	92	96	97	97	97	97	97	95	94	90	91	90	90	87	82	74	67	60	54
10000	93	97	96	98	99	98	99	97	96	94	94	92	92	88	82	74	67	60	54
OVERALL	107	109	109	110	110	109	110	107	107	105	107	105	107	107	105	97	90	84	77

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 95% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 03
AIRCRAFT CODE 044
OPERATION CODE 01016
PROFILE VERSION A
03 MAY 76
PAGE D3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	123.8	125.2	125.9	126.6	126.0	125.8	126.0	126.6	122.9	121.7	122.1	122.0	122.8	120.2	114.8	107.5	100.7	93.9	87.0
250	121.4	122.8	123.5	124.2	123.5	123.3	123.0	121.1	120.4	119.3	119.6	119.6	120.4	117.8	112.5	105.1	98.3	91.4	84.5
315	118.9	120.3	121.0	121.7	120.9	120.7	121.0	118.5	117.8	116.7	117.1	117.0	117.9	115.3	110.0	102.6	95.8	88.9	82.0
400	116.3	117.7	118.3	119.0	118.1	117.9	118.4	115.8	115.2	114.0	114.5	114.3	115.2	112.6	107.4	100.0	93.1	86.2	79.3
500	113.5	114.9	115.5	116.2	115.3	115.0	115.6	113.0	112.4	111.3	111.8	111.5	112.3	109.8	104.6	97.2	90.3	83.4	76.4
630	110.5	111.9	112.6	113.2	112.3	111.9	112.6	110.1	109.5	108.3	108.9	108.6	109.2	106.8	101.6	94.2	87.3	80.3	73.3
800	107.4	108.7	109.4	110.0	109.1	108.7	109.3	106.9	106.3	105.2	105.8	105.5	106.0	103.5	98.5	91.0	84.0	77.1	70.1
1000	103.9	105.3	105.9	106.5	105.6	105.2	105.8	103.4	102.9	101.8	102.4	102.1	102.7	100.0	95.5	87.7	80.7	73.7	66.7
1250	100.1	101.5	102.1	102.7	101.9	101.4	102.0	99.7	99.2	98.1	98.7	98.5	99.0	96.4	92.3	84.5	77.5	70.5	63.4
1600	96.6	97.7	97.9	98.5	98.0	97.2	97.8	95.5	95.1	94.1	94.7	94.4	95.0	93.2	88.7	81.1	74.1	67.1	59.8
2000	92.8	93.8	93.7	94.6	94.1	92.7	93.1	91.0	90.6	89.8	90.7	90.5	91.1	89.8	84.7	77.4	70.4	63.3	55.7
2500	88.5	89.6	89.5	90.4	89.9	88.3	88.4	86.6	86.4	85.7	86.7	86.4	87.2	85.7	80.3	73.3	66.3	59.0	51.0
3150	83.9	85.2	85.1	85.7	85.2	83.7	83.7	82.1	82.2	81.6	82.3	82.1	83.2	81.2	75.8	68.9	61.7	54.0	45.7
4000	79.0	80.4	80.2	80.5	80.1	78.6	78.5	77.7	77.6	77.2	77.7	77.5	78.7	76.2	70.9	64.0	56.6	48.5	39.2
5000	73.6	75.0	74.8	74.8	74.9	73.8	73.7	72.9	72.9	72.5	72.7	72.5	73.8	71.0	65.8	58.7	50.8	42.1	32.6
6300	67.7	69.6	69.4	69.6	69.7	68.6	68.4	67.7	67.8	67.4	67.5	67.3	68.7	65.8	60.4	53.0	44.4	35.7	22.9
8000	62.4	64.8	64.6	64.7	65.0	63.8	63.7	63.1	63.2	62.9	63.3	63.1	64.4	61.7	56.3	48.5	39.5	28.8	13.1
10000	57.3	59.7	59.5	59.6	59.9	58.8	58.6	58.2	58.4	58.0	58.8	58.7	59.9	57.3	51.9	43.4	33.1	20.7	3.4
12500	51.5	54.0	53.7	53.9	54.1	53.2	53.2	53.1	53.5	52.7	53.9	53.8	54.9	52.5	46.7	37.0	26.0	10.3	
16000	44.5	47.5	47.1	47.5	47.7	47.3	47.3	47.4	48.0	47.3	48.7	48.5	49.3	47.2	41.0	29.7	16.8		
20000	36.9	39.3	39.0	40.4	39.8	40.5	40.5	40.7	41.3	40.4	42.1	41.7	42.4	41.1	34.6	19.8	7.6		
25000	29.4	31.3	31.7	32.2	30.8	31.9	31.9	32.1	33.2	32.3	34.8	34.1	34.9	34.1	25.7	7.1			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNOB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 95% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 03
AIRCRAFT CODE 044
OPERATION CODE 01016
PROFILE VERSION A
03 MAY 76
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	125.5	126.0	126.5	128.1	127.6	127.4	127.8	124.9	124.5	123.8	123.9	123.9	124.9	122.3	116.1	109.0	102.3	95.4	88.6
250	123.1	124.2	124.0	125.7	125.1	124.9	125.3	122.4	122.0	121.3	121.5	121.5	122.4	119.9	113.8	106.6	99.9	93.0	86.1
315	120.6	121.7	121.5	123.1	122.5	122.2	122.8	119.8	119.4	118.8	119.0	118.9	119.9	117.3	111.3	104.1	97.3	90.4	83.5
400	118.0	119.1	118.9	120.5	119.8	119.5	120.2	117.1	116.8	116.1	116.4	116.2	117.2	114.7	108.7	101.5	94.7	87.8	80.8
500	115.2	116.3	116.1	117.7	117.0	116.5	117.4	114.3	114.0	113.3	113.7	113.4	114.3	111.9	105.9	98.7	91.8	84.9	78.0
630	112.2	113.3	113.1	114.7	114.0	113.5	114.4	111.4	111.1	110.4	110.8	110.5	111.2	108.8	102.9	95.8	88.8	81.9	74.9
800	109.0	110.1	109.9	111.5	110.8	110.3	111.1	108.2	107.9	107.3	107.6	107.4	108.0	105.6	99.8	92.5	85.6	78.6	71.6
1000	105.6	106.7	106.4	108.0	107.3	106.8	107.6	104.7	104.5	103.9	104.3	104.0	104.7	102.1	96.8	89.2	82.3	75.3	68.3
1250	101.6	102.9	102.5	104.2	103.5	103.0	103.8	101.0	100.8	100.2	100.6	100.3	101.0	98.4	93.6	86.0	79.1	72.1	65.0
1600	98.3	99.1	98.4	100.0	99.7	98.8	99.6	95.8	96.7	96.1	96.6	96.3	97.0	95.2	90.0	82.6	75.6	68.6	61.3
2000	94.4	95.2	94.3	96.1	95.8	94.2	94.3	92.3	92.2	91.9	92.6	92.4	93.1	91.8	86.0	78.9	71.9	64.8	57.3
2500	90.2	91.0	90.1	91.9	91.5	89.9	90.2	87.9	88.0	87.8	88.5	88.3	89.2	87.7	81.6	74.8	67.8	60.5	52.5
3150	85.6	86.6	85.6	87.2	86.9	85.2	85.9	83.4	83.8	83.6	84.2	84.0	85.2	83.2	77.1	70.4	63.2	55.6	47.2
4000	80.4	81.5	80.6	81.7	81.4	79.9	80.0	78.7	78.9	78.9	79.2	79.0	80.3	77.8	72.0	65.2	57.8	49.8	40.5
5000	74.6	75.9	75.2	75.7	75.9	74.7	74.7	73.6	73.8	73.7	73.8	73.6	75.0	72.2	66.6	59.7	51.8	43.0	33.5
6300	68.4	70.2	69.7	70.2	70.4	69.2	69.2	68.2	68.4	68.2	68.2	68.0	69.5	66.6	60.9	53.6	45.0	36.3	23.5
8000	62.8	65.1	64.7	65.0	65.3	64.1	64.0	63.3	63.5	63.3	63.7	63.5	64.8	62.1	56.6	48.8	39.8	29.1	13.4
10000	57.3	59.7	59.5	59.6	59.9	58.8	58.6	58.2	58.4	58.0	58.8	58.7	59.9	57.3	51.9	43.4	33.1	20.7	3.4
12500	51.5	54.0	53.7	53.9	54.1	53.2	53.2	53.1	53.5	52.7	53.9	53.8	54.9	52.6	46.7	37.0	26.0	10.3	
16000	44.5	47.5	47.1	47.5	47.7	47.3	47.3	47.4	48.0	47.3	48.7	48.5	49.3	47.2	41.0	29.7	16.8		
20000	36.9	39.3	39.6	40.4	39.8	40.5	40.5	40.7	41.3	40.4	42.1	41.7	42.4	41.1	34.6	19.8	7.6		
25000	29.4	31.3	31.7	32.2	30.8	31.9	31.9	32.1	33.2	32.3	34.8	34.1	34.9	34.1	25.7	7.1			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 95% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 03
AIRCRAFT CODE 044
OPERATION CODE 01015
PROFILE VERSION A
03 MAY 76
PAGE F3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	109.5	111.1	111.7	112.5	111.9	111.4	111.8	109.1	108.2	106.8	107.0	106.8	107.4	104.1	98.5	91.1	84.5	77.8	71.1
250	107.1	108.7	109.2	110.0	109.4	108.8	109.3	106.5	105.7	104.3	104.6	104.4	105.0	101.7	96.2	88.8	82.1	75.5	68.8
315	104.6	106.1	106.7	107.4	106.8	106.2	106.6	103.9	103.1	101.8	102.0	101.8	102.4	99.3	93.9	86.4	79.8	73.1	66.4
400	101.9	103.5	104.0	104.7	104.0	103.4	103.8	101.2	100.4	99.1	99.4	99.2	99.8	96.7	91.4	84.0	77.4	70.7	64.0
500	99.2	100.7	101.2	101.9	101.2	100.5	100.9	98.3	97.6	96.4	96.7	96.5	97.1	94.1	88.9	81.5	74.9	68.2	61.5
630	96.3	97.8	98.2	98.9	98.2	97.5	97.8	95.4	94.7	93.6	93.9	93.7	94.3	91.4	86.3	78.9	72.3	65.6	58.9
800	93.3	94.8	95.1	95.7	95.2	94.3	94.6	92.3	91.7	90.7	91.0	90.8	91.5	88.6	83.5	76.3	69.6	62.9	56.3
1000	90.2	91.7	91.9	92.4	92.0	91.0	91.2	89.2	88.6	87.7	88.1	87.8	88.5	85.8	80.7	73.6	66.9	60.2	53.6
1250	86.9	88.6	88.6	89.1	88.7	87.6	87.7	86.0	85.5	84.8	85.1	84.8	85.6	82.9	77.8	70.7	64.1	57.4	50.7
1600	83.6	85.3	85.3	85.6	85.3	84.2	84.2	82.9	82.5	81.8	82.1	81.8	82.6	80.0	74.8	67.8	61.2	54.5	47.8
2000	80.2	82.1	81.9	82.1	82.0	80.9	80.8	79.8	79.4	78.9	79.2	78.9	79.7	77.1	71.7	64.9	58.2	51.5	44.9
2500	76.7	78.7	78.5	78.6	78.6	77.5	77.3	76.6	76.3	75.8	76.0	75.7	76.7	73.8	68.3	61.6	55.0	48.3	41.6
3150	73.1	75.3	74.9	75.0	75.1	74.1	73.8	73.3	73.0	72.5	72.6	72.2	73.4	70.3	64.6	58.1	51.4	44.8	38.1
4000	69.1	71.5	71.2	71.2	71.4	70.4	70.0	69.7	69.4	68.9	68.9	68.5	69.8	66.5	60.6	54.2	47.6	40.9	34.2
5000	64.8	67.4	67.1	67.1	67.3	66.3	66.0	65.6	65.4	64.9	64.8	64.3	65.7	62.2	56.3	50.0	43.3	36.7	30.0
6300	60.2	63.0	62.6	62.6	62.8	61.9	61.5	61.3	61.0	60.6	60.5	59.9	61.4	57.7	51.8	45.5	38.9	32.2	25.5
8000	55.8	58.6	58.4	58.3	58.6	57.8	57.4	57.2	57.0	56.6	56.5	56.0	57.5	54.0	48.1	41.7	35.0	28.3	21.7
10000	51.2	54.0	53.7	53.7	54.0	53.2	52.8	52.8	52.7	52.3	52.3	51.8	53.3	50.0	44.2	37.6	30.9	24.2	17.6
12500	46.2	48.9	48.7	48.8	49.0	48.3	47.9	47.9	47.9	47.5	47.7	47.3	48.6	45.5	40.1	33.2	26.5	19.9	13.2
16000	40.7	43.3	43.1	43.3	43.5	42.9	42.5	42.6	42.7	42.4	42.7	42.4	43.6	41.0	35.8	28.6	21.9	15.2	8.6
20000	34.8	37.1	36.9	37.3	37.3	37.0	36.6	36.8	37.0	36.6	37.3	37.0	38.0	35.9	31.3	23.7	17.0	10.4	3.7
25000	28.3	30.3	30.1	30.6	30.4	30.5	30.1	30.4	30.7	30.4	31.4	31.1	32.0	30.5	26.7	18.7	12.0	5.4	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 95% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 03
AIRCRAFT CODE 044
OPERATION CODE 01015
PROFILE VERSION A
03 MAY 76
PAGE G3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	111.2	112.5	112.3	114.0	113.5	112.9	113.6	110.4	109.8	108.8	108.9	108.7	109.4	106.2	99.8	92.7	86.0	79.3	72.7
250	108.8	110.1	109.8	111.5	111.0	110.4	111.1	107.8	107.3	106.4	106.4	106.3	107.0	103.8	97.5	90.3	83.7	77.0	70.3
315	106.3	107.5	107.2	108.9	108.4	107.8	108.4	105.2	104.7	103.8	103.9	103.7	104.4	101.3	95.2	88.0	81.3	74.6	68.0
400	103.6	104.9	104.5	106.2	105.7	105.0	105.6	102.5	102.0	101.2	101.3	101.1	101.8	98.8	92.7	85.6	78.9	72.2	65.6
500	100.9	102.1	101.7	103.4	102.9	102.1	102.7	99.7	99.2	98.5	98.6	98.4	99.1	95.1	90.2	83.1	76.4	69.7	63.1
630	98.0	99.2	98.8	100.4	99.9	99.0	99.6	96.7	96.3	95.6	95.8	95.5	96.3	93.4	87.6	80.5	73.8	67.1	60.5
800	95.6	96.2	95.7	97.2	96.8	95.8	96.4	93.6	93.3	92.7	92.9	92.6	93.5	90.6	84.8	77.8	71.2	64.5	57.8
1000	91.8	93.1	92.5	93.9	93.6	92.5	93.0	90.5	90.2	89.8	89.9	89.7	90.5	87.8	82.0	75.1	68.4	61.8	55.1
1250	88.6	90.0	89.2	90.5	90.3	89.2	89.5	87.3	87.1	86.8	87.0	86.7	87.6	84.9	79.1	72.3	65.6	58.9	52.3
1600	85.3	86.7	85.8	87.1	87.0	85.8	86.0	84.2	84.1	83.8	84.0	83.7	84.7	82.0	76.1	69.4	62.7	56.0	49.4
2000	81.9	83.5	82.4	83.6	83.6	82.5	82.6	81.1	81.0	80.9	81.0	80.7	81.7	79.1	73.0	66.4	59.7	53.1	46.4
2500	78.4	80.1	79.0	80.1	80.2	79.1	79.1	77.9	77.9	77.8	77.9	77.5	78.7	75.9	69.6	63.2	56.5	49.8	43.2
3150	74.7	76.7	75.5	76.5	76.8	75.6	75.6	74.6	74.6	74.5	74.5	74.1	75.4	72.4	65.9	59.6	53.0	46.3	39.6
4000	70.5	72.7	71.6	72.4	72.7	71.6	71.5	70.7	70.7	70.5	70.4	70.0	71.4	68.1	61.6	55.5	48.8	42.1	35.5
5000	65.6	68.3	67.4	68.0	68.3	67.3	67.0	66.4	66.3	66.1	65.9	65.4	66.9	63.4	57.1	50.9	44.3	37.6	30.9
6300	60.9	63.5	62.9	63.2	63.5	62.6	62.3	61.8	61.7	61.4	61.2	60.6	62.2	58.5	52.3	46.2	39.5	32.8	26.2
8000	56.1	58.9	58.5	58.6	58.9	58.1	57.7	57.5	57.4	57.0	56.9	56.4	57.9	54.4	48.4	42.0	35.3	28.6	22.0
10000	51.2	54.0	53.7	53.7	54.0	53.2	52.8	52.8	52.7	52.3	52.3	51.8	53.3	50.0	44.2	37.6	30.9	24.2	17.6
12500	46.2	48.9	48.7	48.8	49.0	48.3	47.9	47.9	47.9	47.5	47.7	47.3	48.6	45.6	40.1	33.2	26.5	19.9	13.2
16000	40.7	43.3	43.1	43.3	43.5	42.9	42.5	42.6	42.7	42.4	42.7	42.4	43.6	41.0	35.8	28.6	21.9	15.2	8.5
20000	34.8	37.1	36.9	37.3	37.3	37.0	36.6	35.8	37.0	36.6	37.3	37.0	38.0	35.9	31.3	23.7	17.0	10.4	3.7
25000	28.3	30.3	30.1	30.6	30.4	30.5	30.1	30.4	30.7	30.4	31.4	31.1	32.0	30.5	26.7	18.7	12.0	5.4	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

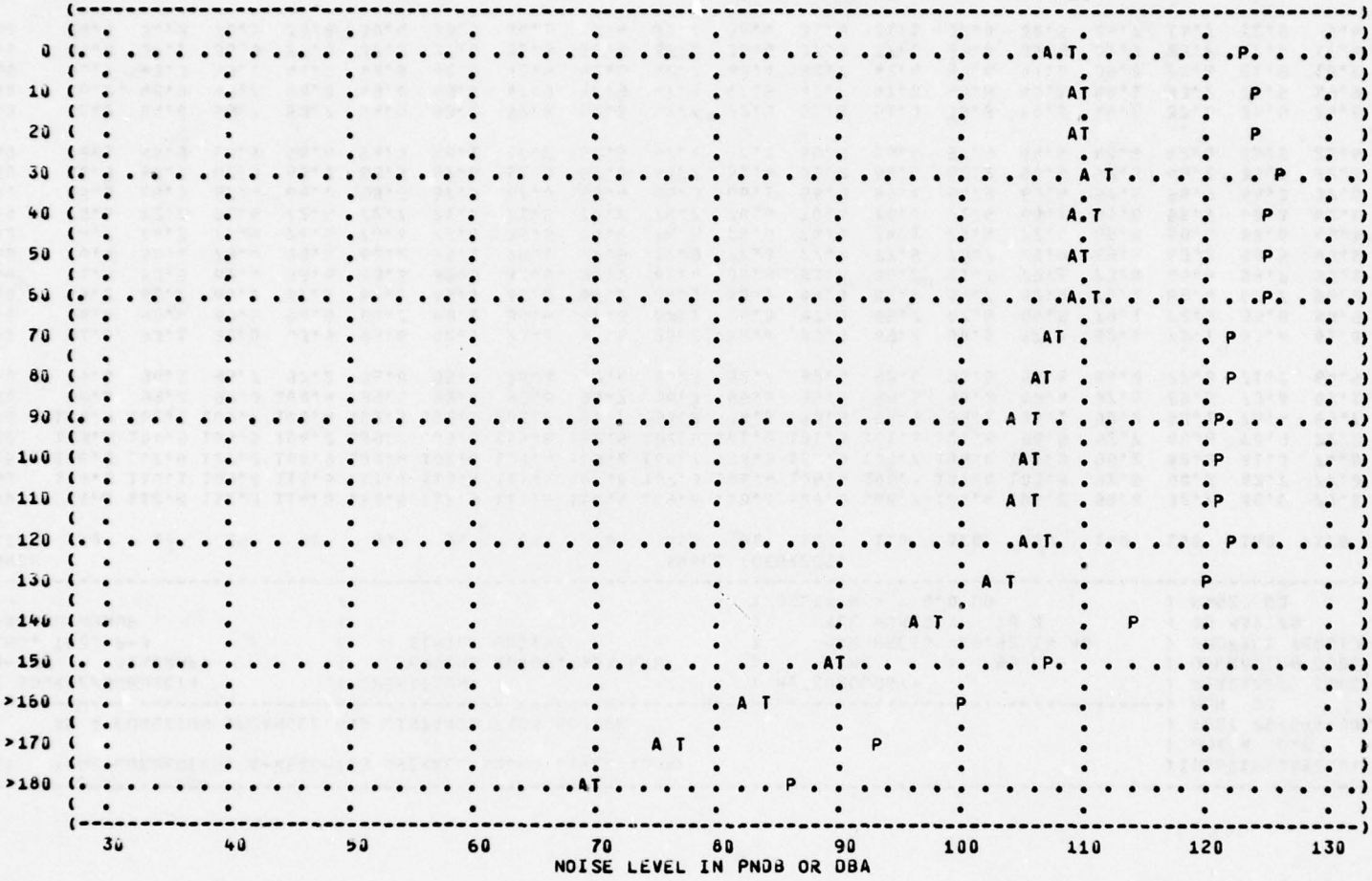
NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 95% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 03
AIRCRAFT CODE 044
OPERATION CODE 01016
PROFILE VERSION A
03 MAY 76
PAGE J3

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 04
AIRCRAFT CODE 044
OPERATION CODE 06034
PROFILE VERSION A
03 MAY 76
PAGE C4

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
NORMAL RATED THRUST
100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
50	82	82	80	80	81	84	83	84	82	84	85	87	90	95	94	88	81	75	68
63	83	82	82	83	86	85	85	87	85	88	89	89	92	95	93	86	79	73	66
80	86	83	82	85	86	87	88	88	88	90	90	93	96	99	95	88	81	75	68
100	84	84	85	86	87	88	88	90	89	92	92	91	97	97	93	84	77	71	64
125	88	87	87	88	89	90	91	91	93	95	93	96	99	103	95	85	78	72	65
160	90	89	90	90	91	91	93	93	94	94	95	97	101	103	95	81	74	68	61
200	92	91	91	93	93	93	92	96	97	96	97	98	103	104	95	78	71	65	58
250	93	93	92	91	93	95	94	94	95	96	97	98	105	105	93	76	69	63	56
315	93	93	94	94	94	95	94	94	94	97	98	98	102	103	91	74	67	61	54
400	95	94	95	94	95	94	95	96	97	99	99	99	102	103	89	71	64	58	51
500	94	94	94	94	94	95	96	95	95	96	97	100	101	100	87	67	60	54	47
630	94	94	94	95	94	94	95	96	96	97	98	99	99	97	84	62	55	49	42
800	94	95	95	95	95	96	95	96	97	96	97	98	99	96	82	62	55	49	42
1000	94	94	94	94	94	94	94	94	94	95	96	97	97	93	79	61	54	48	41
1250	94	94	94	94	94	94	94	94	94	94	95	96	95	91	78	62	55	49	42
1600	92	93	93	93	92	92	93	93	93	93	93	94	93	90	75	61	54	48	41
2000	91	92	91	91	92	92	93	92	91	93	93	92	92	88	74	60	53	47	40
2500	91	92	91	91	92	92	93	93	91	92	92	92	91	88	72	60	53	47	40
3150	91	91	93	91	93	93	91	92	91	92	91	91	89	86	70	58	51	45	38
4000	93	93	93	94	94	94	93	93	91	93	93	91	88	85	69	57	50	44	37
5000	93	93	94	93	94	94	94	95	94	95	95	92	89	85	69	57	50	44	37
6300	98	98	98	97	98	99	100	100	101	103	105	102	99	92	77	63	56	50	43
8000	94	95	94	94	94	96	96	98	97	98	99	97	95	90	76	61	54	48	41
10000	92	92	91	92	93	93	94	94	95	95	95	93	90	85	71	57	50	44	37
OVERALL	106	106	107	107	107	107	108	108	108	109	111	110	112	113	104	94	87	81	74

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 04
AIRCRAFT CODE 044
OPERATION CODE 06034
PROFILE VERSION A
03 MAY 76
PAGE D4

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
NORMAL RATED THRUST
100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	121.9	121.9	122.0	121.8	122.4	122.9	123.6	123.8	124.0	125.3	126.8	125.4	124.5	121.7	110.0	96.5	89.6	82.2	74.7
250	119.4	119.4	119.5	119.4	119.9	120.5	121.2	121.3	121.6	122.9	124.3	122.9	122.1	119.5	107.9	94.4	87.3	79.8	72.3
315	116.9	116.9	117.0	116.9	117.4	117.9	118.6	118.8	119.0	120.3	121.7	120.4	119.7	117.4	105.7	92.1	84.9	77.4	69.9
400	114.2	114.2	114.3	114.2	114.7	115.3	116.0	116.1	116.3	117.6	119.0	117.8	117.1	115.1	103.5	89.9	82.4	74.9	67.4
500	111.4	111.4	111.5	111.4	111.9	112.4	113.1	113.3	113.5	114.7	116.1	114.9	114.4	112.8	101.2	87.4	79.8	72.3	64.8
630	108.4	108.4	108.5	108.6	109.0	109.4	110.1	110.2	110.4	111.7	113.0	111.9	111.4	110.4	98.6	84.6	77.0	69.5	61.8
800	105.2	105.2	105.6	105.6	106.0	106.3	106.8	107.0	107.2	108.4	109.7	108.7	108.5	107.9	95.9	81.7	74.1	66.5	58.7
1000	102.0	102.1	102.5	102.4	103.0	103.2	103.4	103.5	103.6	104.9	106.1	105.2	105.8	105.3	93.3	78.9	71.2	63.5	55.2
1250	98.7	98.9	99.2	99.0	99.6	99.9	100.1	100.3	100.0	101.0	102.2	101.8	102.9	102.5	90.2	75.4	67.8	59.9	51.3
1600	95.3	95.5	95.6	95.5	96.2	96.4	96.7	96.8	96.7	97.8	98.4	98.7	99.9	99.6	86.9	71.7	64.0	56.1	47.2
2000	91.6	91.8	91.9	91.9	92.4	92.7	93.0	93.1	93.3	94.5	95.1	95.4	96.7	96.5	83.7	67.6	60.2	51.9	42.7
2500	87.9	87.9	88.0	88.1	88.3	88.7	89.0	89.0	89.3	90.5	91.1	91.8	92.8	92.6	79.7	63.4	55.5	46.9	36.9
3150	83.7	84.0	84.0	84.3	84.3	84.6	84.9	85.1	85.4	86.1	86.9	87.8	88.8	88.3	75.4	58.4	50.0	40.5	27.5
4000	79.4	79.7	79.8	79.9	80.0	80.3	80.5	80.6	81.1	81.6	82.5	83.4	84.3	83.5	70.8	52.4	43.7	33.1	15.4
5000	74.7	75.1	75.2	75.2	75.3	75.6	75.8	75.9	76.5	76.8	77.7	78.6	79.5	78.7	65.9	45.9	35.9	19.8	3.4
6300	69.7	70.1	70.2	70.2	70.3	70.6	70.8	70.9	71.5	71.8	72.6	73.6	74.5	73.7	60.7	39.0	25.0	6.9	
8000	65.1	65.5	65.6	65.7	65.7	66.1	66.2	66.3	67.1	67.4	68.4	69.6	70.7	69.9	56.8	33.2	14.9		
10000	60.2	60.7	60.7	61.0	60.9	61.2	61.6	61.7	62.3	62.9	63.9	65.3	66.5	65.9	52.5	24.1	6.8		
12500	55.3	55.5	55.5	55.9	55.5	56.2	56.7	56.7	57.0	57.9	58.9	60.6	62.0	61.5	47.7	13.7			
16000	49.7	49.8	49.9	50.0	49.8	50.8	51.3	51.1	51.5	52.6	53.6	55.4	56.9	56.5	42.3	3.3			
20000	43.1	43.3	43.3	43.4	43.5	44.5	45.0	44.8	45.4	46.5	47.6	49.6	51.3	51.2	35.6				
25000	35.3	35.5	35.6	36.0	35.8	36.9	37.3	37.2	37.9	39.4	40.2	42.7	44.7	44.9	27.9				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
NORMAL RATED THRUST
100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 04
AIRCRAFT CODE 044
OPERATION CODE 06034
PROFILE VERSION A
03 MAY 76
PAGE E4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	122.5	122.5	122.5	122.5	122.9	123.5	124.5	124.4	124.8	126.4	128.1	126.6	125.6	122.4	110.7	97.2	90.3	82.8	75.4
250	120.1	120.1	120.1	120.1	120.5	121.0	122.1	122.0	122.3	123.9	125.6	124.2	123.3	120.2	108.6	95.0	87.9	80.5	73.0
315	117.6	117.6	117.6	117.5	118.0	118.5	119.5	119.4	119.8	121.4	123.0	121.7	120.8	118.0	106.4	92.8	85.5	78.1	70.5
400	114.9	114.9	114.9	114.9	115.3	115.8	116.9	116.8	117.1	118.7	120.3	119.0	118.2	115.8	104.2	90.5	83.1	75.6	68.1
500	112.1	112.1	112.1	112.1	112.5	113.0	114.0	113.9	114.2	115.8	117.4	116.2	115.5	113.5	101.9	88.0	80.5	73.0	65.4
630	109.0	109.0	109.1	109.3	109.5	110.0	111.0	110.9	111.2	112.8	114.4	113.2	112.6	111.1	99.3	85.2	77.7	70.2	62.5
800	105.9	105.9	106.2	106.3	106.6	106.8	107.7	107.6	107.9	109.5	111.0	110.0	109.6	108.6	96.6	82.4	74.8	67.2	59.3
1000	102.7	102.8	103.1	103.1	103.5	103.8	104.3	104.1	104.4	105.9	107.4	106.5	106.9	106.0	94.0	79.5	71.9	64.2	55.9
1250	99.4	99.6	99.8	99.6	100.2	100.4	101.0	100.9	100.8	102.1	103.5	103.0	104.1	103.2	90.9	76.1	68.5	60.5	52.0
1600	96.0	96.2	96.2	96.1	96.7	96.9	97.6	97.4	97.4	98.9	99.7	99.9	101.0	100.3	87.6	72.4	64.7	56.7	47.8
2000	92.5	92.5	92.5	92.5	93.0	93.2	93.9	93.7	94.1	95.6	96.4	96.7	97.9	97.2	84.4	68.2	60.9	52.6	43.3
2500	88.5	88.6	88.6	88.8	88.9	89.2	89.9	89.7	90.1	91.5	92.4	93.1	94.0	93.3	80.4	64.0	56.1	47.5	37.6
3150	84.4	84.6	84.6	84.9	84.8	85.1	85.8	85.7	86.1	87.2	88.3	89.1	89.9	89.0	76.1	59.0	50.7	41.2	28.1
4000	79.9	80.3	80.3	80.4	80.4	80.7	81.2	81.2	81.7	82.5	83.6	84.4	85.2	84.3	71.4	52.9	44.3	33.6	16.0
5000	75.1	75.5	75.5	75.6	75.7	75.9	76.3	76.3	77.0	77.5	78.5	79.3	80.2	79.1	66.3	46.3	36.3	20.2	3.8
6300	69.9	70.4	70.4	70.5	70.5	70.8	71.1	71.1	71.8	72.2	73.1	74.1	75.0	74.0	61.0	39.2	25.2	7.2	
8000	65.2	65.7	65.7	65.8	65.9	66.2	66.4	66.5	67.3	67.6	68.6	69.8	70.9	70.1	56.9	33.3	15.0		
10000	60.2	60.7	60.7	61.0	60.9	61.2	61.6	61.7	62.3	62.9	63.9	65.3	66.5	65.9	52.5	24.1	6.8		
12500	55.3	55.5	55.5	55.9	55.5	56.2	56.7	56.7	57.0	57.9	58.9	60.6	62.0	61.5	47.7	13.7			
16000	49.7	49.8	49.9	50.0	49.8	50.8	51.3	51.1	51.5	52.6	53.6	55.4	56.9	56.6	42.3	3.3			
20000	43.1	43.3	43.3	43.4	43.5	44.5	45.0	44.8	45.4	46.5	47.6	49.6	51.3	51.2	35.6				
25000	35.3	35.5	35.6	36.0	35.8	36.9	37.3	37.2	37.9	39.4	40.2	42.7	44.7	44.9	27.9				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
NORMAL RATED THRUST
100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 04
AIRCRAFT CODE 044
OPERATION CODE 06034
PROFILE VERSION A
03 MAY 76
PAGE F4

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	107.5	107.7	107.8	107.6	108.0	108.4	108.8	109.0	109.1	110.0	111.4	110.3	110.0	108.1	95.6	79.7	73.0	66.4	59.7
250	105.2	105.3	105.4	105.3	105.7	106.1	106.4	106.6	106.7	107.6	108.9	108.0	107.8	106.0	93.5	77.6	70.9	64.3	57.6
315	102.8	102.9	103.1	102.9	103.3	103.7	103.9	104.1	104.2	105.1	106.4	105.6	105.6	103.9	91.4	75.5	68.8	62.2	55.5
400	100.3	100.5	100.6	100.5	100.8	101.2	101.4	101.6	101.7	102.6	103.8	103.1	103.3	101.7	89.3	73.3	66.7	60.0	53.3
500	97.8	98.0	98.1	98.0	98.3	98.6	98.9	99.0	99.1	100.0	101.1	100.7	101.0	99.5	87.1	71.1	64.4	57.8	51.1
630	95.3	95.4	95.6	95.5	95.7	96.0	96.2	96.3	96.5	97.3	98.3	98.1	98.6	97.3	84.8	68.7	62.1	55.4	48.7
800	92.7	92.9	93.0	92.9	93.1	93.4	93.6	93.7	93.8	94.6	95.5	95.6	96.2	94.9	82.5	66.3	59.6	53.0	46.3
1000	90.1	90.2	90.3	90.3	90.4	90.7	90.9	91.0	91.1	91.9	92.7	93.0	93.8	92.5	80.0	63.8	57.1	50.4	43.8
1250	87.4	87.5	87.6	87.6	87.7	87.9	88.2	88.2	88.4	89.1	89.9	90.4	91.2	90.0	77.4	60.9	54.3	47.6	40.9
1500	84.6	84.8	84.9	84.8	84.9	85.1	85.4	85.4	85.7	86.4	87.2	87.8	88.6	87.5	74.7	57.9	51.3	44.6	37.9
2000	81.9	82.0	82.0	82.1	82.0	82.3	82.6	82.6	82.9	83.6	84.4	85.1	85.9	84.8	71.8	54.8	48.1	41.4	34.8
2500	78.8	79.0	79.0	79.1	79.0	79.3	79.6	79.6	79.9	80.5	81.4	82.2	82.9	81.7	68.6	51.1	44.5	37.8	31.1
3150	75.6	75.8	75.8	75.9	75.7	76.0	76.3	75.4	76.7	77.2	78.1	79.0	79.6	78.1	65.1	47.2	40.5	33.8	27.2
4000	72.0	72.2	72.2	72.3	72.1	72.5	72.8	72.8	73.2	73.6	74.6	75.4	76.0	74.3	61.1	42.8	36.1	29.5	22.8
5000	68.6	68.3	68.2	68.3	68.1	68.5	68.7	68.8	69.2	69.6	70.5	71.4	71.9	70.0	56.8	38.3	31.6	25.0	18.3
6300	63.6	63.9	63.8	64.0	63.8	64.1	64.4	64.4	64.9	65.2	66.2	67.1	67.5	65.5	52.4	33.7	27.0	20.3	13.7
8000	59.5	59.6	59.7	59.9	59.7	60.0	60.3	60.3	60.8	61.2	62.2	63.2	63.7	61.9	48.8	30.2	23.6	16.9	10.2
10000	55.0	55.3	55.2	55.5	55.2	55.6	55.9	55.9	56.4	56.8	57.9	58.9	59.6	58.0	45.0	26.7	20.0	13.4	6.7
12500	50.0	50.4	50.3	50.6	50.3	50.7	51.1	51.1	51.6	52.1	53.2	54.3	55.1	53.8	40.9	23.1	16.5	9.8	3.1
16000	44.7	45.0	45.0	45.3	45.0	45.4	45.8	45.8	46.4	47.0	48.0	49.2	50.1	49.2	36.5	19.6	12.9	6.2	
20000	38.8	39.1	39.1	39.4	39.2	39.6	40.0	40.0	40.6	41.3	42.3	43.5	44.8	44.2	31.8	16.0	9.4	2.7	
25000	32.4	32.6	32.7	32.9	32.8	33.2	33.7	33.7	34.3	35.1	36.1	37.4	38.9	38.8	26.8	12.6	5.9		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
NORMAL RATED THRUST
100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -9.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 04
AIRCRAFT CODE 044
OPERATION CODE 06034
PROFILE VERSION A
03 MAY 76
PAGE G4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	108.2	108.3	108.3	108.3	108.6	109.0	109.7	109.6	109.8	111.1	112.7	111.6	111.2	108.8	96.3	80.4	73.7	67.0	60.4
250	105.9	106.0	106.0	105.9	106.2	106.6	107.3	107.2	107.4	108.7	110.3	109.2	109.0	106.7	94.2	78.3	71.6	64.9	58.3
315	103.5	103.6	103.6	103.6	103.8	104.2	104.8	104.8	105.0	106.2	107.7	106.9	106.7	104.6	92.1	76.2	69.5	62.8	56.2
400	101.6	101.1	101.2	101.1	101.4	101.7	102.3	102.2	102.5	103.7	105.1	104.4	104.5	102.4	90.0	74.0	67.3	60.7	54.0
500	98.5	98.6	98.7	98.6	98.8	99.2	99.8	99.6	99.9	101.0	102.4	101.9	102.1	100.2	87.8	71.8	65.1	58.4	51.8
630	96.0	96.1	96.1	96.1	96.3	96.6	97.2	97.0	97.3	98.4	99.7	99.4	99.8	97.9	85.5	69.4	62.7	56.1	49.4
800	93.4	93.5	93.5	93.5	93.6	93.9	94.5	94.3	94.6	95.6	96.9	96.8	97.4	95.6	83.1	67.0	60.3	53.6	47.0
1000	90.7	90.9	90.9	90.9	91.0	91.2	91.8	91.6	91.9	92.9	94.1	94.3	94.9	93.3	80.7	64.4	57.8	51.1	44.4
1250	88.1	88.2	88.2	88.2	88.2	88.5	89.1	88.9	89.2	90.2	91.3	91.7	92.4	90.7	78.1	61.6	54.9	48.3	41.6
1600	85.3	85.5	85.4	85.5	85.4	85.7	86.3	86.1	86.5	87.4	88.5	89.0	89.8	88.1	75.4	58.6	51.9	45.3	38.6
2000	82.5	82.7	82.6	82.7	82.6	82.8	83.5	83.3	83.7	84.6	85.7	86.4	87.1	85.5	72.5	55.4	48.8	42.1	35.4
2500	79.5	79.7	79.6	79.7	79.5	79.8	80.5	80.3	80.7	81.6	82.7	83.4	84.1	82.3	69.3	51.8	45.1	38.5	31.8
3150	76.2	76.4	76.3	76.5	76.3	76.6	77.2	77.0	77.5	78.3	79.5	80.2	80.8	78.8	65.8	47.8	41.2	34.5	27.8
4000	72.5	72.8	72.6	72.8	72.6	72.9	73.5	73.3	73.8	74.5	75.6	76.4	76.9	74.8	61.7	43.3	36.7	30.0	23.3
5000	68.4	68.6	68.5	68.7	68.5	68.8	69.3	69.2	69.7	70.2	71.3	72.2	72.6	70.4	57.2	38.7	32.0	25.4	18.7
6300	63.9	64.2	64.1	64.2	64.0	64.3	64.7	64.7	65.2	65.6	66.7	67.6	68.0	65.8	52.6	33.9	27.3	20.6	13.9
8000	59.6	59.9	59.8	60.0	59.8	60.1	60.5	60.5	61.0	61.4	62.5	63.4	63.9	62.0	49.0	30.4	23.7	17.0	10.4
10000	55.0	55.3	55.2	55.5	55.2	55.6	55.9	55.9	56.4	56.8	57.9	58.9	59.6	58.0	45.0	26.7	20.0	13.4	6.7
12500	50.0	50.4	50.3	50.6	50.3	50.7	51.1	51.1	51.6	52.1	53.2	54.3	55.1	53.8	40.9	23.1	16.5	9.8	3.1
16000	44.7	45.0	45.0	45.3	45.0	45.4	45.8	45.8	46.4	47.0	48.0	49.2	50.1	49.2	36.5	19.6	12.9	6.2	
20000	38.8	39.1	39.1	39.4	39.2	39.6	40.0	40.0	40.6	41.3	42.3	43.5	44.8	44.2	31.8	16.0	9.4	2.7	
25000	32.4	32.6	32.7	32.9	32.8	33.2	33.7	33.7	34.3	35.1	36.1	37.4	38.9	38.8	26.8	12.6	5.9		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
NORMAL RATED THRUST
100% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %

DELTA N = -9.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 04
AIRCRAFT CODE 044
OPERATION CODE 06034
PROFILE VERSION A
03 MAY 76
PAGE J4

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 05
AIRCRAFT CODE 044
OPERATION CODE 01031
PROFILE VERSION A
03 MAY 76
PAGE C5

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
MAXIMUM POWER
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	81	83	83	83	82	83	86	88	88	88	88	91	94	98	99	96	88	78	68
63	85	84	83	83	88	89	87	90	89	92	90	92	96	98	101	97	85	75	65
80	86	86	84	86	88	89	91	91	92	92	95	95	100	103	102	101	84	74	64
100	88	86	86	89	89	90	91	94	93	95	96	97	100	104	103	95	83	73	63
125	91	89	90	92	92	95	94	95	95	95	98	99	104	107	107	94	80	70	60
160	92	90	92	93	94	95	95	97	98	98	100	101	104	108	105	91	78	68	58
200	94	95	94	95	95	95	96	98	101	100	102	101	104	108	102	93	77	67	57
250	95	96	93	95	97	97	97	97	98	100	103	102	106	108	99	94	75	65	55
315	95	95	94	97	97	95	98	98	100	101	101	102	107	105	99	92	72	62	52
400	98	98	96	96	98	98	99	99	101	100	102	104	107	107	96	88	70	60	50
500	95	95	95	97	98	98	98	99	100	101	101	103	105	106	96	89	67	57	47
630	96	95	95	97	98	99	98	98	98	99	99	100	102	100	91	85	65	55	45
800	95	95	95	97	98	100	99	100	100	98	98	100	104	99	90	86	66	56	46
1000	96	96	96	97	97	98	97	98	97	98	98	98	102	96	88	85	65	55	45
1250	95	96	95	96	96	97	96	97	97	95	97	98	102	95	85	82	65	55	45
1600	95	94	93	95	95	95	95	95	94	95	96	96	98	92	84	81	62	52	42
2000	96	96	95	96	95	96	95	94	94	93	94	95	96	92	84	81	63	53	43
2500	97	97	95	97	97	95	95	93	93	93	93	95	95	92	83	79	62	52	42
3150	93	92	93	93	93	95	95	94	93	92	92	92	92	88	79	74	59	49	39
4000	95	95	95	95	95	96	95	94	93	93	92	92	92	87	78	73	59	49	39
5000	95	93	93	95	95	96	96	96	95	94	93	92	92	89	78	73	59	49	39
6300	96	97	97	100	99	101	103	102	102	96<	102	98	98	93	83	78	63	53	43
8000	95	96	96	99	98	100	102	100	99	98	98	97	97	93	84	78	63	53	43
10000	92	92	93	94	94	95	96	95	95	94	93	92	92	90	78	73	57	47	37
OVERALL	108	108	108	109	110	110	111	111	111	111	112	113	116	117	113	106	92	82	72

XXX< = EXTRAPOLATED OR INTERPOLATED SPL
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
MAXIMUM POWER
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 05
AIRCRAFT CODE 044
OPERATION CODE 01031
PROFILE VERSION A
03 MAY 76
PAGE D5

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	123.6	123.1	122.7	124.5	124.3	125.7	126.4	125.8	125.8	123.7	126.1	125.2	126.8	125.4	118.6	111.9	95.5	84.7	73.5
250	121.2	120.8	120.3	122.0	121.9	123.2	124.0	123.3	123.4	121.3	123.7	122.8	124.6	123.3	116.5	109.7	93.3	82.3	71.1
315	118.7	118.5	117.9	119.5	119.4	120.7	121.4	120.8	120.8	118.8	121.2	120.4	122.4	121.1	114.4	107.6	91.1	79.9	68.7
400	116.3	116.1	115.4	116.8	117.0	118.1	118.7	118.2	118.2	116.2	118.6	117.8	120.2	118.9	112.2	105.4	88.7	77.4	66.2
500	113.7	113.6	112.7	114.1	114.4	115.2	115.9	115.3	115.4	113.7	115.8	115.3	117.8	116.5	109.9	103.0	86.1	74.8	63.6
630	111.1	110.9	110.1	111.5	111.8	112.2	112.9	112.3	112.4	111.1	112.8	112.8	115.4	114.2	107.4	100.5	83.5	72.2	60.8
800	108.3	108.1	107.3	108.7	109.0	109.1	109.6	109.1	109.2	108.3	109.7	110.3	112.9	111.7	104.7	98.1	80.6	69.3	57.7
1000	105.4	105.2	104.3	105.7	106.0	106.1	106.2	105.7	105.7	105.5	106.6	107.6	110.3	109.1	101.9	95.5	77.4	66.2	54.3
1250	102.2	102.0	101.1	102.5	102.9	102.9	103.0	102.3	102.7	102.6	103.7	104.8	107.5	106.4	98.9	92.3	74.0	63.0	50.7
1600	98.8	98.6	97.7	99.1	99.5	99.5	99.6	99.1	99.6	99.5	100.7	101.8	104.6	103.5	95.6	88.8	70.6	59.6	46.8
2000	95.1	94.9	94.0	95.4	95.8	96.0	95.9	95.8	96.4	96.3	97.5	98.7	101.5	100.4	92.4	85.3	67.1	55.7	42.3
2500	91.0	90.9	90.1	91.3	91.7	92.0	91.9	92.1	92.4	92.7	93.5	94.8	97.7	96.5	88.5	81.7	63.0	50.9	36.5
3150	86.7	86.5	85.9	87.0	87.4	88.0	88.0	88.1	88.2	88.7	89.4	90.6	93.5	92.4	84.3	77.5	58.1	45.2	28.1
4000	82.6	81.8	81.1	82.3	83.0	83.8	83.8	83.8	83.9	84.3	85.0	86.1	89.0	87.9	79.7	72.9	52.2	38.5	15.5
5000	78.8	78.6	78.1	77.4	78.4	79.2	79.1	79.2	79.3	79.5	80.2	81.4	84.3	83.2	74.8	68.0	46.1	30.3	3.1
6300	71.6	71.5	71.2	72.3	73.4	74.3	74.1	74.3	74.4	74.5	75.2	76.4	79.4	78.3	69.8	62.9	39.3	20.2	
8000	67.0	66.7	66.4	67.9	68.9	69.8	69.7	69.9	70.0	70.5	71.2	72.4	75.5	74.5	66.2	58.9	33.1	6.9	
10000	62.3	62.0	61.7	63.2	64.1	65.0	64.9	65.2	65.5	66.2	66.9	68.2	71.3	70.7	62.2	54.6	24.6		
12500	57.1	57.0	56.7	58.1	59.1	59.7	59.7	60.4	60.8	61.5	62.4	63.6	66.8	66.4	57.8	49.7	16.0		
16000	51.6	51.5	51.3	52.6	53.7	54.3	54.3	55.2	55.6	56.4	57.3	58.6	61.8	61.5	52.8	44.2	7.3		
20000	45.1	44.9	44.7	46.4	47.7	48.3	48.4	49.2	49.7	50.6	51.5	52.9	56.3	56.3	47.3	37.8			
25000	37.7	37.7	37.1	38.9	40.3	41.1	41.1	42.2	42.8	43.8	44.8	46.5	50.1	50.3	40.6	28.8			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
MAXIMUM POWER
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %

DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 05
AIRCRAFT CODE 044
OPERATION CODE 01031
PROFILE VERSION A
03 MAY 76
PAGE E5

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	123.6	123.1	122.7	124.5	124.3	125.7	127.0	126.4	126.5	124.2	127.1	125.8	127.5	125.4	119.2	111.9	95.5	84.7	73.5
250	121.2	120.8	120.3	122.0	121.9	123.2	124.5	124.0	124.1	121.8	124.7	123.4	125.3	123.3	117.1	109.7	93.3	82.3	71.1
315	118.7	118.5	117.9	119.5	119.4	120.7	122.0	121.5	121.6	119.4	122.2	120.9	123.1	121.1	115.0	107.6	91.1	79.9	68.7
400	116.3	116.1	115.4	116.8	117.0	118.1	119.3	118.8	119.0	116.8	119.6	118.4	120.8	118.9	112.8	105.4	88.7	77.4	66.2
500	113.7	113.6	112.7	114.1	114.4	115.2	116.5	116.0	116.2	114.3	116.8	115.9	118.5	116.6	110.5	103.0	86.1	74.8	63.6
630	111.1	110.9	110.1	111.5	111.8	112.2	113.4	113.0	113.2	111.6	113.9	113.4	116.0	114.2	108.0	100.5	83.5	72.2	60.8
800	108.3	108.1	107.3	108.7	109.0	109.1	110.2	109.8	109.9	108.9	110.7	110.8	113.5	111.7	105.4	98.1	80.6	69.3	57.7
1000	105.4	105.2	104.3	105.7	106.0	106.1	106.8	106.3	106.5	106.0	107.6	108.2	110.9	109.1	102.5	95.5	77.4	66.2	54.3
1250	102.2	102.0	101.1	102.5	102.9	102.9	103.6	103.0	103.5	103.1	104.7	105.3	108.2	106.4	99.5	92.3	74.0	63.0	50.7
1600	98.8	98.6	97.7	99.1	99.5	99.5	100.1	99.8	100.4	100.0	101.7	102.4	105.2	103.5	96.2	88.8	70.6	59.6	46.8
2000	95.1	94.9	94.0	95.4	95.8	96.0	96.5	96.5	97.1	96.8	98.5	99.2	102.2	100.4	93.0	85.3	67.1	55.7	42.3
2500	91.6	90.9	90.1	91.3	91.7	92.0	92.5	92.8	93.2	93.3	94.5	95.3	98.4	96.5	89.1	81.7	63.0	50.9	36.5
3150	86.7	86.5	85.9	87.0	87.4	88.0	88.6	88.7	89.0	89.3	90.5	91.1	94.1	92.4	84.9	77.5	58.1	45.2	28.1
4000	82.0	81.8	81.1	82.3	83.0	83.8	84.2	84.4	84.5	84.7	85.8	86.6	89.5	87.9	80.1	72.9	52.2	38.6	15.6
5000	76.8	76.6	76.1	77.4	78.4	79.2	79.5	79.6	79.8	79.8	80.8	81.7	84.7	83.2	75.2	68.0	46.1	30.3	3.1
6300	71.6	71.5	71.2	72.3	73.4	74.3	74.4	74.6	74.7	74.7	75.6	76.6	79.6	78.3	70.1	62.9	39.3	20.2	
8000	67.6	66.7	66.4	67.9	68.9	69.8	69.8	70.0	70.1	70.6	71.4	72.5	75.6	74.6	66.3	58.9	33.1	6.9	
10000	62.3	62.0	61.7	63.2	64.1	65.0	64.9	65.2	65.5	66.2	66.9	68.2	71.3	70.7	62.2	54.6	24.6		
12500	57.1	57.0	56.7	58.1	59.1	59.7	59.7	60.4	60.8	61.5	62.4	63.6	65.8	66.4	57.8	49.7	16.0		
16000	51.6	51.5	51.3	52.6	53.7	54.3	54.3	55.2	55.6	56.4	57.3	58.6	61.8	61.6	52.8	44.2	7.3		
20000	45.1	44.9	44.7	46.4	47.7	48.3	48.4	49.2	49.7	50.6	51.5	52.9	56.3	56.3	47.3	37.8			
25000	37.7	37.7	37.1	38.9	40.3	41.1	41.1	42.2	42.8	43.8	44.8	46.5	50.1	50.3	40.6	28.8			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
MAXIMUM POWER
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 05
AIRCRAFT CODE 044
OPERATION CODE 01031
PROFILE VERSION A
03 MAY 76
PAGE F5

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	109.7	109.3	109.0	110.4	110.5	111.4	111.8	111.1	110.9	110.2	111.2	111.5	114.2	111.9	103.8	97.3	79.3	69.3	59.3
250	107.4	107.0	106.7	108.0	108.2	109.1	109.4	108.8	108.6	107.9	108.9	109.3	112.1	109.8	101.7	95.2	77.2	67.2	57.2
315	105.1	104.7	104.3	105.6	105.8	106.7	106.9	106.4	106.2	105.6	106.6	107.1	109.9	107.7	99.7	93.1	75.0	65.0	55.0
400	102.7	102.3	101.9	103.2	103.4	104.3	104.4	103.9	103.8	103.3	104.2	104.8	107.7	105.5	97.5	91.0	72.8	62.8	52.8
500	100.2	99.9	99.4	100.7	101.0	101.7	101.8	101.4	101.3	100.9	101.8	102.5	105.5	103.3	95.3	88.8	70.6	60.6	50.6
630	97.7	97.4	96.9	98.1	98.5	99.2	99.2	98.9	98.8	98.6	99.4	100.2	103.2	101.1	93.0	86.5	68.2	58.2	48.2
800	95.1	94.8	94.4	95.5	95.9	96.6	96.5	95.3	96.2	96.1	96.9	97.8	100.9	98.8	90.6	84.2	65.8	55.8	45.8
1000	92.4	92.2	91.7	92.8	93.3	94.0	93.8	93.7	93.7	93.7	94.4	95.4	98.6	95.4	88.2	81.8	63.3	53.3	43.3
1250	89.7	89.5	89.0	90.1	90.7	91.3	91.1	91.1	91.0	91.1	91.8	92.9	96.1	93.9	85.5	79.2	60.6	50.6	40.6
1600	86.9	86.7	86.2	87.3	87.9	88.6	88.3	88.4	88.4	88.5	89.2	90.3	93.6	91.4	82.8	76.5	57.7	47.7	37.7
2000	84.0	83.8	83.4	84.4	85.2	85.8	85.5	85.7	85.7	85.8	86.5	87.7	91.0	88.7	80.0	73.7	54.8	44.8	34.8
2500	80.9	80.7	80.3	81.4	82.1	82.8	82.5	82.7	82.7	82.9	83.4	84.7	88.0	85.7	76.8	70.6	51.4	41.4	31.4
3150	77.5	77.3	77.0	78.1	78.9	79.6	79.2	79.5	79.4	79.6	80.1	81.3	84.7	82.1	73.2	67.2	47.8	37.8	27.8
4000	73.8	73.6	73.3	74.4	75.3	76.1	75.7	76.0	75.9	76.1	76.5	77.6	81.1	78.3	69.2	63.4	43.9	33.9	23.9
5000	69.6	69.5	69.3	70.4	71.3	72.2	71.6	72.0	71.8	72.0	72.4	73.5	77.0	74.0	65.0	59.3	39.7	29.7	19.7
6300	65.2	65.1	64.9	66.0	66.9	67.8	67.3	67.7	67.5	67.7	68.0	69.1	72.7	69.6	60.5	54.9	35.3	25.3	15.3
8000	61.6	60.9	60.7	61.8	62.8	63.8	63.2	63.7	63.6	63.8	64.1	65.2	68.7	66.0	57.0	51.1	31.5	21.5	11.5
10000	56.4	56.3	56.1	57.3	58.4	59.3	58.9	59.3	59.3	59.5	59.9	61.0	64.5	62.2	53.1	47.0	27.4	17.4	7.4
12500	51.5	51.4	51.2	52.4	53.6	54.4	54.1	54.5	54.6	54.9	55.3	56.5	59.8	58.0	49.1	42.6	23.2	13.2	3.2
16000	46.2	46.0	45.8	47.1	48.3	49.1	48.8	49.3	49.5	49.8	50.3	51.6	54.8	53.4	44.7	37.9	19.0	9.0	
20000	40.4	40.2	39.9	41.2	42.5	43.1	43.0	43.5	43.8	44.2	44.9	46.2	49.3	48.5	40.1	33.0	14.8	4.8	
25000	34.1	34.0	33.9	34.9	36.1	36.6	36.7	37.2	37.7	38.1	39.0	40.3	43.4	43.1	35.3	27.9	10.9	.9	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 75-044-001
RUN 05
AIRCRAFT CODE 044
OPERATION CODE 01031
PROFILE VERSION A
03 MAY 76
PAGE G5

NOISE SOURCE/SUBJECT:
B-52H AIRCRAFT
ENG. TF33-P-3
GROUND RUNUP

OPERATION:
MAXIMUM POWER
SINGLE ENGINE

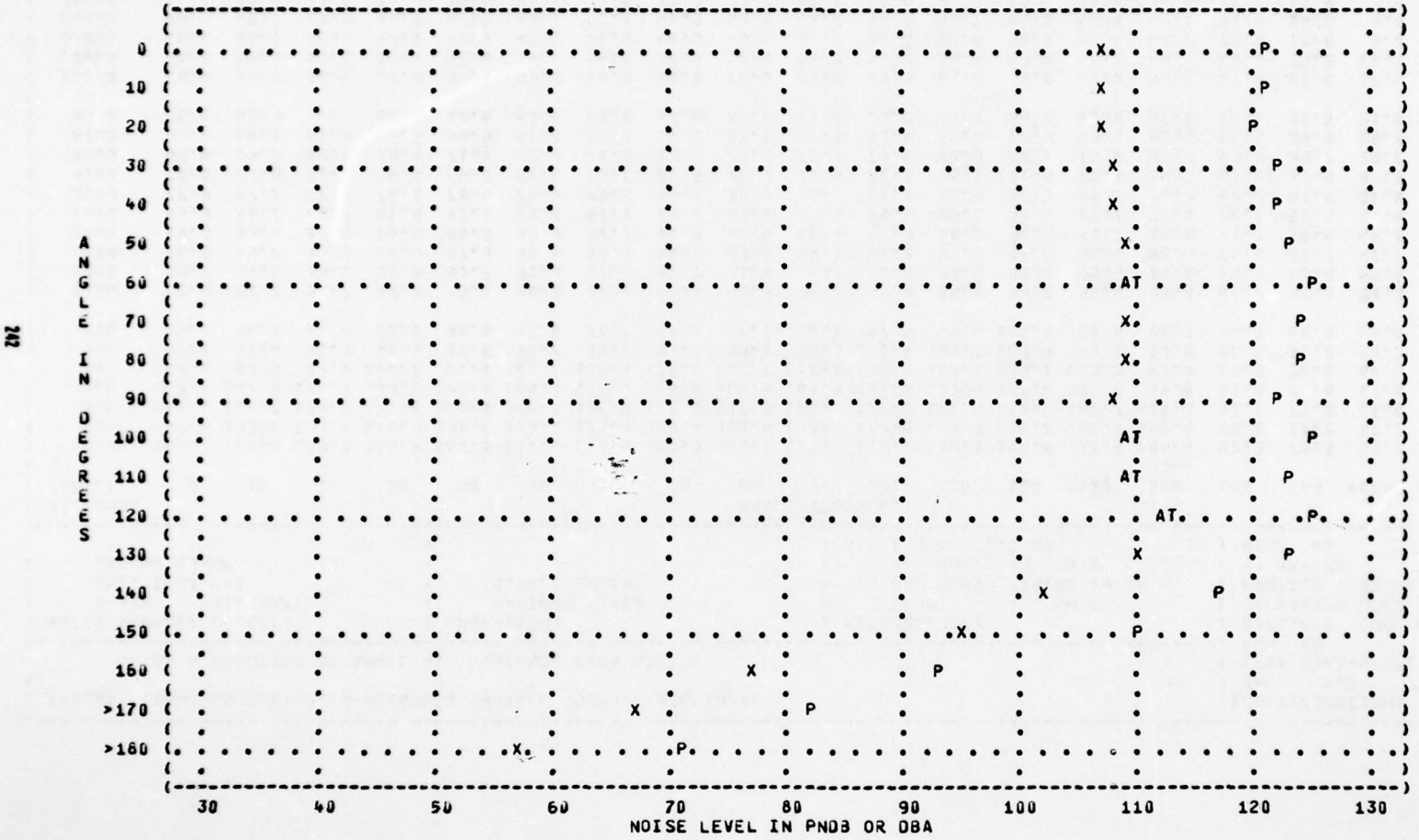
METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	109.7	109.3	109.0	110.4	110.5	111.4	112.4	111.8	111.7	110.7	112.2	112.1	114.8	111.9	104.4	97.3	79.3	69.3	59.3
250	107.4	107.0	106.7	108.0	108.2	109.1	110.0	109.4	109.4	108.5	110.0	109.9	112.7	109.8	102.4	95.2	77.2	67.2	57.2
315	105.1	104.7	104.3	105.6	105.8	106.7	107.5	107.0	107.0	106.2	107.6	107.6	110.5	107.7	100.3	93.1	75.0	65.0	55.0
400	102.7	102.3	101.9	103.2	103.4	104.3	105.0	104.6	104.6	103.9	105.3	105.4	108.4	105.5	98.1	91.0	72.8	62.8	52.8
500	100.2	99.9	99.4	100.7	101.0	101.7	102.4	102.1	102.1	101.5	102.9	103.1	106.1	103.3	95.9	88.8	70.6	60.6	50.6
630	97.7	97.4	96.9	98.1	98.5	99.2	99.7	99.5	99.6	99.1	100.4	100.7	103.9	101.1	93.6	86.5	68.2	58.2	48.2
800	95.1	94.8	94.4	95.5	95.9	96.6	97.1	97.0	97.0	96.7	97.9	98.4	101.6	98.8	91.3	84.2	65.8	55.8	45.8
1000	92.4	92.2	91.7	92.8	93.3	94.0	94.4	94.4	94.4	94.2	95.4	96.0	99.2	96.4	88.8	81.8	63.3	53.3	43.3
1250	89.7	89.5	89.0	90.1	90.7	91.3	91.7	91.7	91.8	91.7	92.8	93.5	96.8	93.9	86.2	79.2	60.6	50.6	40.6
1600	86.9	86.7	86.2	87.3	87.9	88.6	88.9	89.1	89.2	89.1	90.2	90.9	94.2	91.4	83.4	76.5	57.7	47.7	37.7
2000	84.0	83.8	83.4	84.4	85.2	85.8	86.1	86.3	86.5	86.4	87.5	88.2	91.6	88.7	80.6	73.7	54.8	44.8	34.8
2500	80.9	80.7	80.3	81.4	82.1	82.8	83.1	83.4	83.5	83.4	84.5	85.2	88.6	85.7	77.4	70.6	51.4	41.4	31.4
3150	77.5	77.3	77.0	78.1	78.9	79.6	79.8	80.2	80.2	80.2	81.1	81.9	85.3	82.1	73.8	67.2	47.8	37.8	27.8
4000	73.8	73.6	73.3	74.4	75.3	76.1	76.1	76.5	76.5	76.5	77.3	78.1	81.6	78.3	69.7	63.4	43.9	33.9	23.9
5000	69.6	69.5	69.3	70.4	71.3	72.2	72.0	72.4	72.3	72.4	73.0	73.8	77.4	74.0	65.3	59.3	39.7	29.7	19.7
6300	65.2	65.1	64.9	66.0	66.9	67.8	67.5	68.0	67.8	67.9	68.4	69.3	72.9	69.6	60.8	54.9	35.3	25.3	15.3
8000	61.0	60.9	60.7	61.8	62.8	63.8	63.4	63.8	63.7	63.9	64.3	65.3	68.9	66.0	57.1	51.1	31.5	21.5	11.5
10000	56.4	56.3	56.1	57.3	58.4	59.3	58.9	59.3	59.3	59.5	59.9	61.0	64.5	62.2	53.1	47.0	27.4	17.4	7.4
12500	51.5	51.4	51.2	52.4	53.6	54.4	54.1	54.5	54.6	54.9	55.3	56.5	59.8	58.0	49.1	42.6	23.2	13.2	3.2
16000	46.2	46.0	45.8	47.1	48.3	49.1	48.8	49.3	49.5	49.8	50.3	51.6	54.8	53.4	44.7	37.9	19.0	9.0	
20000	40.4	40.2	39.9	41.2	42.5	43.1	43.0	43.5	43.8	44.2	44.9	46.2	49.3	48.5	40.1	33.0	14.8	4.8	
25000	34.1	34.0	33.8	34.9	36.1	36.8	36.7	37.2	37.7	38.1	39.0	40.3	43.4	43.1	35.3	27.9	10.9	.9	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE			IDENTIFICATION:
DISTANCE = 250 FEET			OMEGA 8.2
			TEST 75-044-001
NOISE SOURCE/SUBJECT:	OPERATION:	METEOROLOGY:	RUN 05
B-52H AIRCRAFT	MAXIMUM POWER	TEMP = 59 F	AIRCRAFT CODE 044
ENG. TF33-P-3	SINGLE ENGINE	BAR PRESS =29.92 IN HG	OPERATION CODE 01031
GROUND RUNUP		REL HUMID = 70 %	PROFILE VERSION A
		DELTA N = 0.0 DB	03 MAY 76
			PAGE J5

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAF B-57E AIRCRAFT B-57E AIRCRAFT B-57E AIRCRAFT B-57E AIRCRAFT B-57E AIRCRAFT B-57E USAF

NOISE PRODUCED ON THE GROUND BY

B-57E AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 070
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

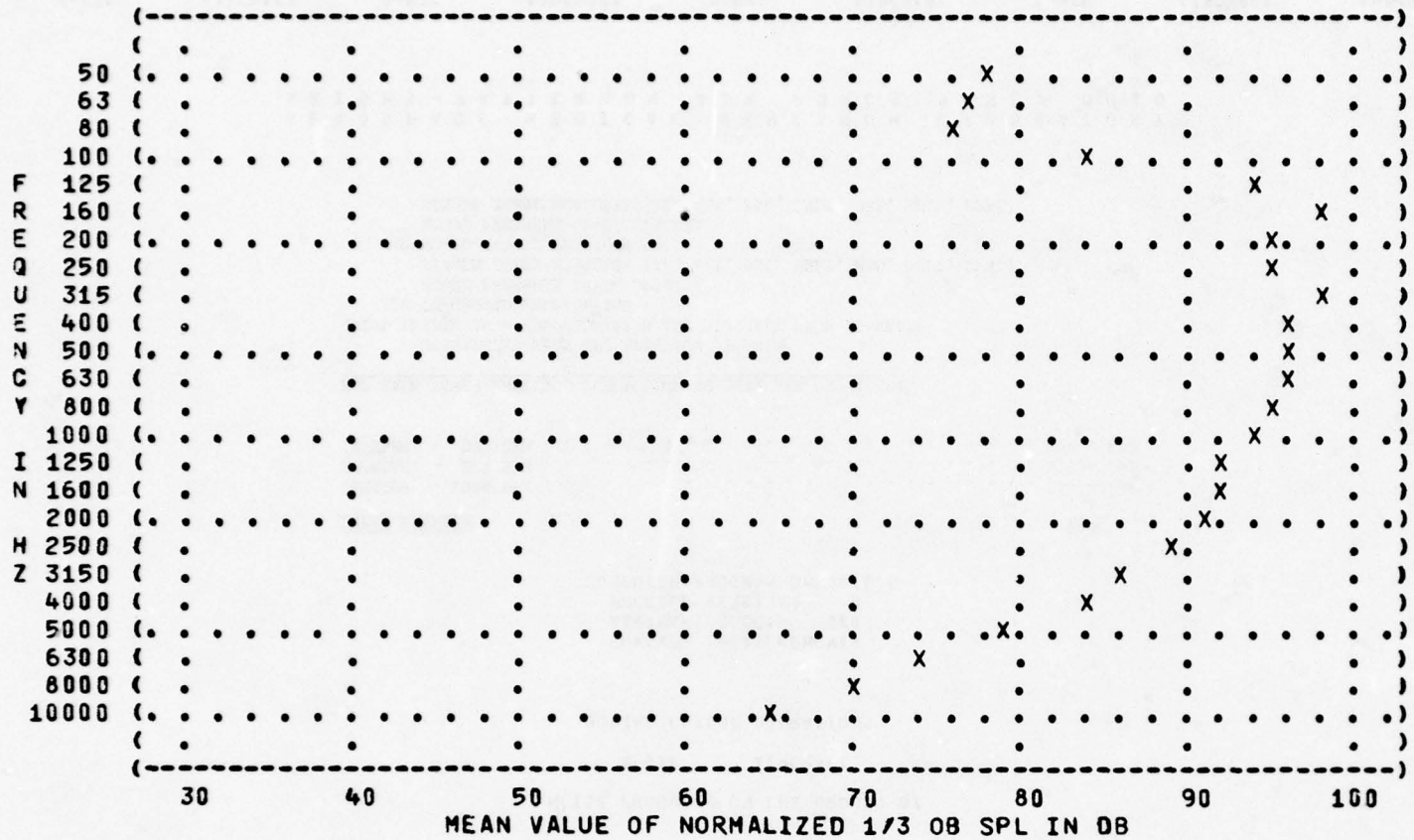
POWER SETTING	PAGE
TAKEOFF - 100% RPM	244 - 252
APPROACH - 82% RPM	253 - 261
INTERMED - 92% RPM	262 - 270

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
- AIR-TO-GROUND PROPAGATION
  - SOUND PRESSURE LEVEL SPECTRA
  - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
- GROUND-TO-GROUND PROPAGATION
  - SOUND PRESSURE LEVEL SPECTRA
  - SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

A E R O S P A C E M E D I C A L R E S E A R C H L A B O R A T O R Y
W R I G H T - P A T T E R S O N A I R F O R C E B A S E , O H I O

USAF B-57E AIRCRAFT B-57E AIRCRAFT B-57E AIRCRAFT B-57E AIRCRAFT B-57E AIRCRAFT B-57E USAF



B-57E TAKEOFF POWER 100 % RPM

AIRSPEED = 200 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-070-103-260176

PNLT = 115.2 PNDB
PNL = 114.7 PNDB
ALT = 103.8 DBA
AL = 103.2 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: B-57E

OPERATION: TAKEOFF POWER, 100 % RPM, AIRSPEED = 200 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 070
OPS CODE: 103
PROFILE VER: A
26 JAN 76
PAGE H1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	92	91	90	99	109	112	110	109	113	111	111	111	110	109	108	108	108	106	105	105	101	100	101	105
250	90	89	88	97	107	110	107	107	110	109	109	109	108	107	106	106	106	104	103	103	99	97	98	101
315	88	87	86	95	105	108	105	105	108	107	107	107	106	105	104	104	103	102	101	100	96	94	95	97
400	86	85	84	93	103	106	103	103	106	105	105	105	104	103	102	102	101	99	98	98	93	91	91	93
500	84	83	82	91	100	104	101	101	104	103	103	103	102	101	100	99	99	97	96	95	90	87	87	87
630	82	81	80	89	98	102	99	99	102	101	101	100	99	98	97	97	96	94	93	91	87	83	82	81
800	80	79	78	87	96	100	97	97	100	99	98	98	97	96	95	94	94	92	90	88	83	79	76	74
1000	78	77	76	84	94<	98	95	95	98	96	96	96	95	94	92	92	91	89	86	84	79	74	70	65
1250	76	75	74	82	92	96	93	92	96	94	94	94	93	91	90	89	88	85	83	80	74	68	62	55
1600	74	73	72	80	90	94	91	90	94	92	92	91	90	89	87	86	85	82	78	75	69	61	53	42
2000	72	70	70	78	88	92	89	88	92	90	89	89	88	86	84	83	81	78	74	69	62	53	42	27
2500	70	68	68	76	86	90	87	86	89	87	87	86	85	83	81	80	77	73	68	62	55	43	28	8
3150	68	66	66	74	84	87	84	84	87	85	84	84	82	80	78	76	73	68	62	54	46	31	12	
4000	66	64	64	72	82	85	82	81	84	82	82	81	79	77	74	71	68	62	55	45	35	17		
5000	64	62	62	70	80	83	80	79	82	80	79	78	75	73	70	66	62	55	46	34	22			
6300	62	60	59	68	77	81	77	76	79	77	76	74	72	69	65	61	56	47	36	20	6			
8000	59	58	57	65	75	78	75	74	76	74	72	70	67	64	59	54	48	37	23	3				
10000	57	56	55	63	72	75	72	71	73	70	68	66	62	58	53	46	38	25	8					
12500	55	53	53	61	70	73	69	68	70	66	64	61	57	52	45	37	27	11						
16000	53	51	50	58	67	70	66	64	66	62	59	56	50	44	36	26	13							
20000	50	49	48	55	64	67	63	60	62	57	54	49	43	35	25	12								
25000	48	46	45	52	61	63	59	56	57	52	47	42	33	24	11									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
B-57E

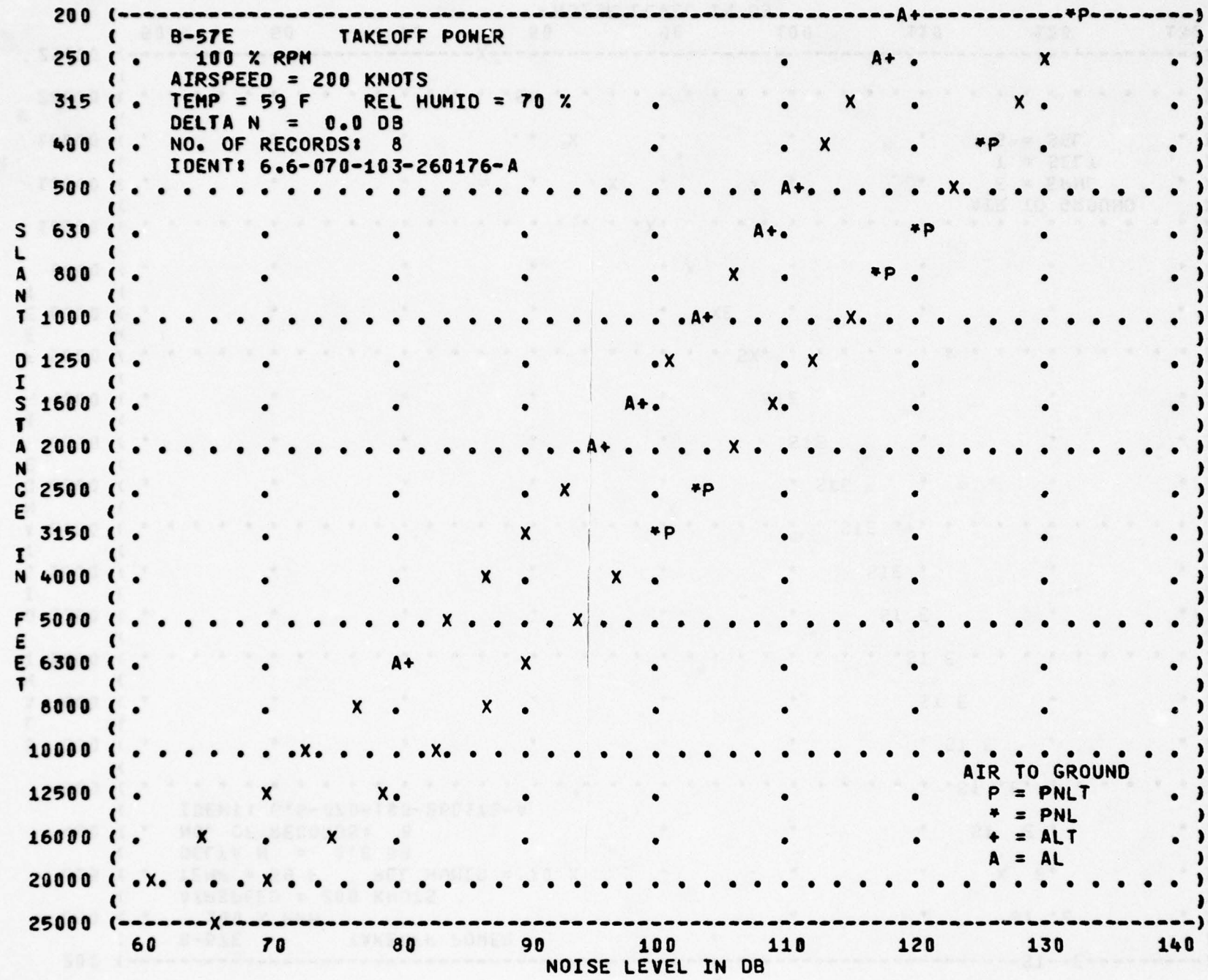
OPERATION:
TAKEOFF POWER
100 % RPM
AIRSPEED = 200 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 070
OPS CODE: 103
PROFILE VER: A
26 JAN 76
PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	119.3	119.9	132.2	132.7	117.9	118.9	122.1
250	117.1	117.7	129.9	130.4	116.7	117.7	120.8
315	114.9	115.4	127.6	128.1	115.5	116.5	119.5
400	112.7	113.2	125.2	125.7	114.3	115.2	118.1
500	110.4	110.9	122.7	123.2	113.0	113.9	116.6
630	108.1	108.6	120.1	120.6	111.6	112.6	115.0
800	105.7	106.2	117.4	117.9	110.3	111.2	113.3
1000	103.2	103.8	114.7	115.2	108.8	109.8	111.5
1250	100.7	101.3	111.8	112.3	107.3	108.3	109.7
1600	98.2	98.7	108.8	109.3	105.7	106.7	107.7
2000	95.5	96.0	106.0	106.5	104.1	105.0	105.9
2500	92.7	93.2	103.0	103.6	102.3	103.3	103.9
3150	89.8	90.4	100.0	100.5	100.4	101.4	101.9
4000	86.8	87.3	96.9	97.3	98.4	99.2	99.6
5000	83.7	84.0	93.6	94.0	96.3	96.9	97.2
6300	80.4	80.6	90.3	90.5	94.0	94.4	94.6
8000	77.0	77.1	86.7	86.8	91.6	91.8	91.9
10000	73.3	73.3	83.0	83.0	88.9	88.9	89.0
12500	69.5	69.5	79.0	79.0	86.1	86.1	86.0
16000	65.4	65.4	74.7	74.7	83.0	83.0	82.7
20000	61.1	61.1	70.3	70.3	79.7	79.7	79.2
25000	56.6	56.6	65.6	65.6	76.2	76.2	75.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-57E TAKEOFF POWER
100 % RPM
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-070-103-260176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

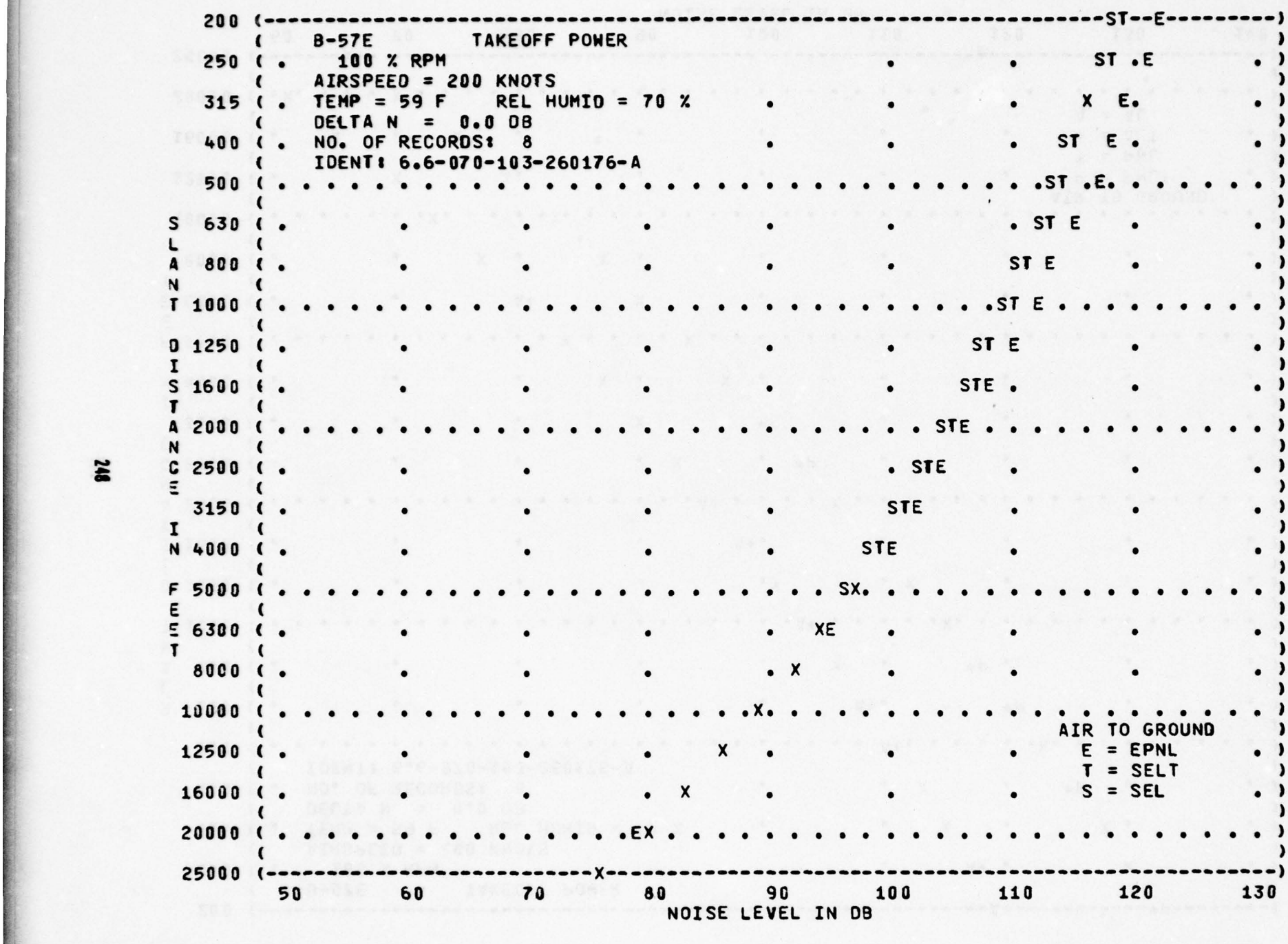

B-57E TAKEOFF POWER
100 % RPM
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-070-103-260176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-57E

OPERATION:
TAKEOFF POWER
100 % RPM
AIRSPEED = 200 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 070
OPS CODE: 103
PROFILE VER: A
26 JAN 76
PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	87	86	85	94	104	107	105	104	108	106	106	106	105	104	103	103	103	101	100	100	96	95	96	100
250	85	84	83	92	102	105	102	102	105	104	104	104	103	102	101	101	101	99	98	98	94	92	93	96
315	83	82	81	90	100	103	100	100	103	102	102	102	101	100	99	99	98	97	96	95	91	89	90	92
400	81	80	79	88	98	101	98	98	101	100	100	100	99	98	97	97	96	94	93	93	88	86	86	88
500	79	78	77	86	95	98	96	96	99	98	98	98	97	96	95	94	94	92	91	90	85	82	82	82
630	77	76	75	84	93	96	93	93	97	96	96	95	94	93	92	92	91	89	88	86	82	78	77	76
800	75	74	73	81	90	93	90	90	95	94	93	93	92	91	90	89	89	87	85	83	78	74	71	69
1000	73	72	71	78	87	90	87	87	93<	91	91	91	90	89	87	87	86	84	81	79	74	69	65	60
1250	71	70	68	75	84	87	84	84	90	89	89	89	88	86	85	84	83	80	78	75	69	63	57	50
1600	69	66	65	72	81	84	81	81	87	87	87	86	85	84	82	81	80	77	73	70	64	56	48	37
2000	66	63	61	68	77	80	77	77	83	85	84	84	83	81	79	78	76	73	69	64	57	48	37	22
2500	62	59	57	64	72	75	73	72	79	81	82	81	80	78	76	75	72	68	63	57	50	38	23	3
3150	58	54	52	59	67	70	68	67	75	77	78	79	77	75	73	71	68	63	57	49	41	26	7	
4000	54	49	47	53	62	65	62	61	69	72	75	75	74	72	69	66	63	57	50	40	30	12		
5000	49	45	42	48	57	60	57	56	63	66	70	71	70	68	65	61	57	50	41	29	17			
6300	44	40	37	44	52	55	52	51	57	61	66	66	66	64	60	56	51	42	31	15	1			
8000	41	38	35	41	50	53	49	49	54	58	62	62	61	59	54	49	43	32	18					
10000	39	36	33	39	47	50	47	46	51	54	58	58	56	53	48	41	33	20	3					
12500	37	33	31	37	45	47	44	43	48	50	54	53	51	47	40	32	22	6						
16000	35	31	28	34	42	44	41	39	44	46	49	48	44	39	31	21	8							
20000	32	29	26	31	39	41	37	35	40	41	44	41	37	30	20	7								
25000	30	26	23	28	36	38	33	31	35	36	37	34	27	19	6									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
B-57E

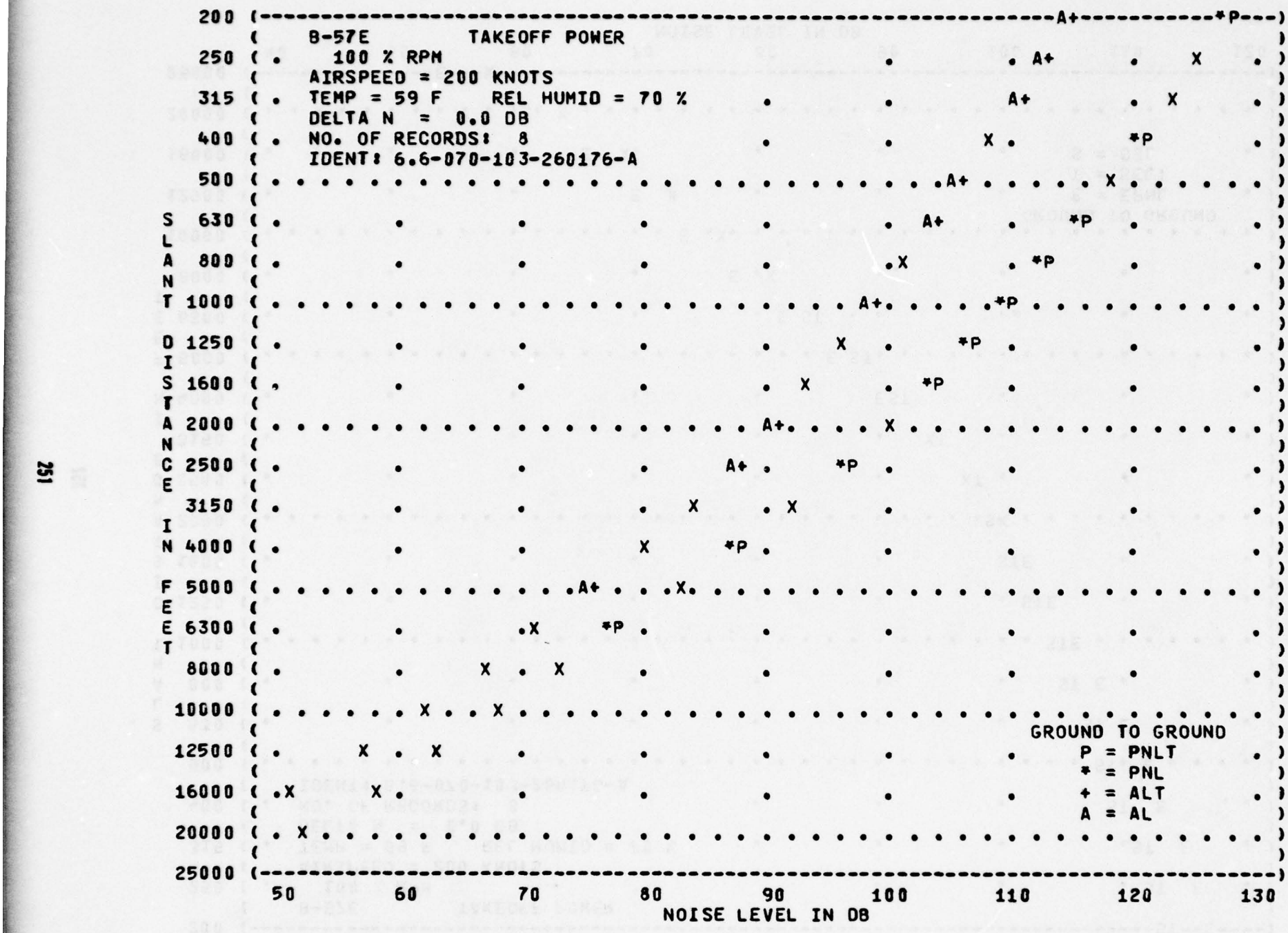
OPERATION:
TAKEOFF POWER
100 % RPM
AIRSPEED = 200 KNOTS

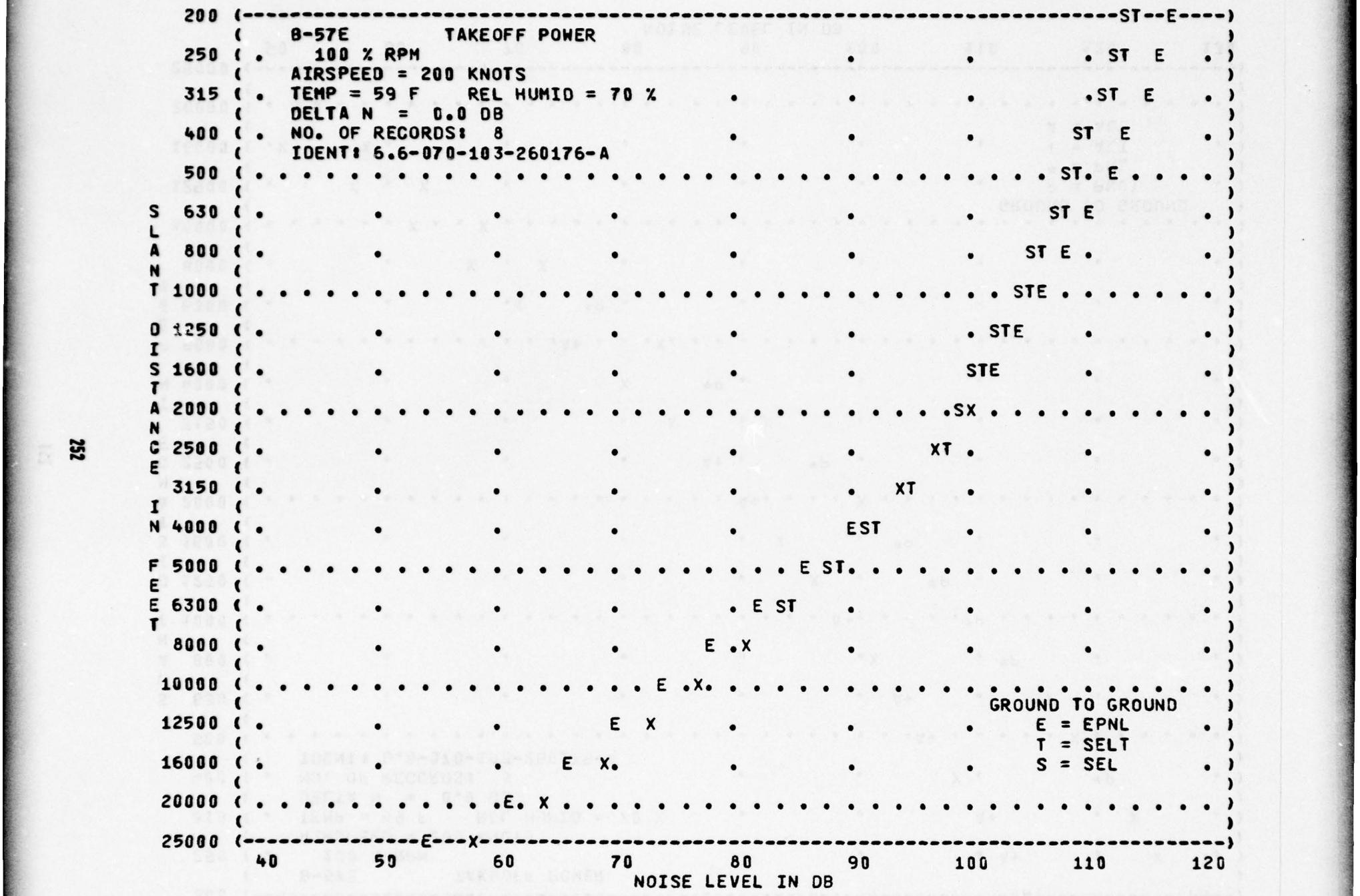
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

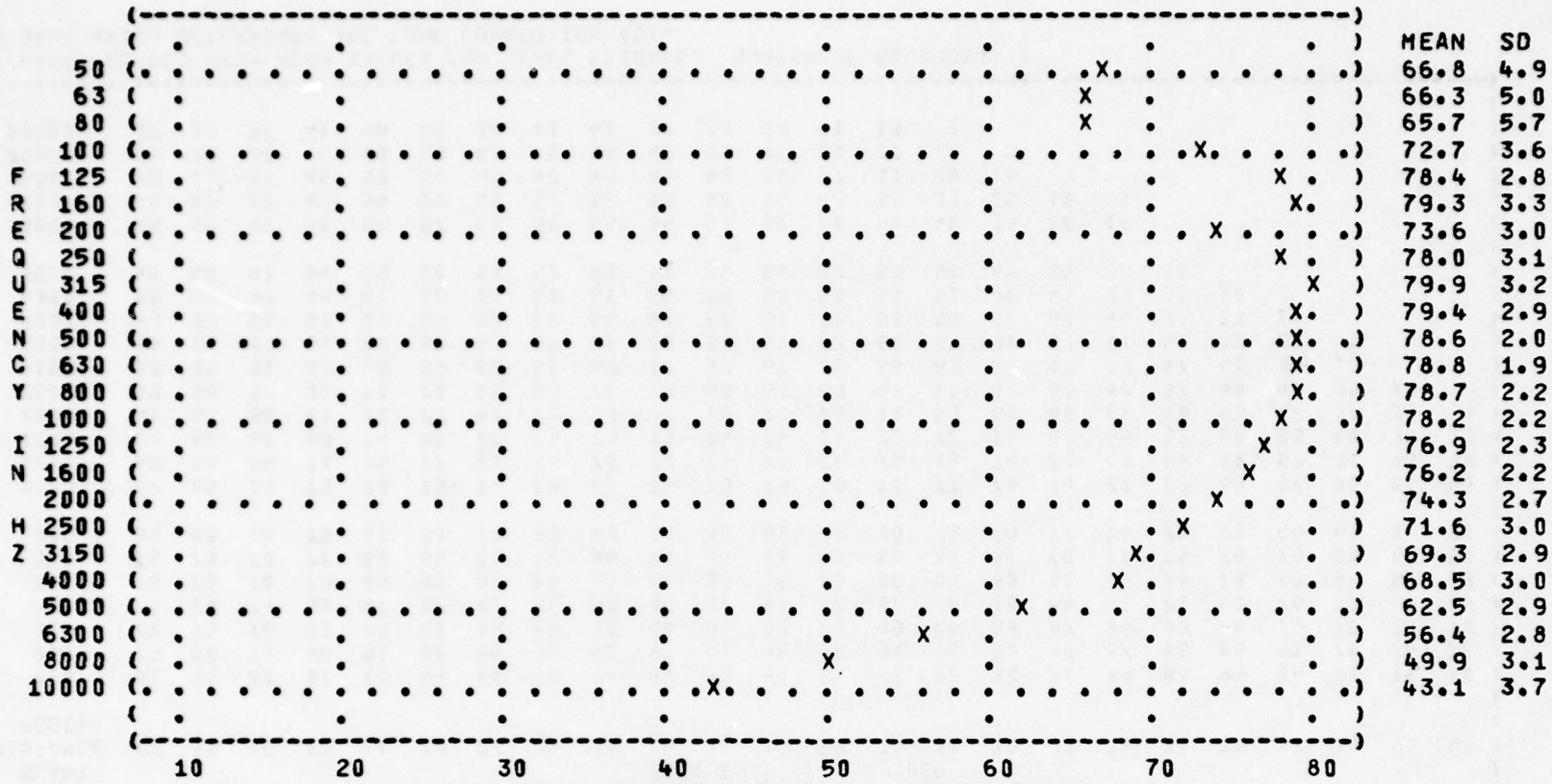
A/C CODE: 070
OPS CODE: 103
PROFILE VER: A
26 JAN 76
PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	114.3	114.9	127.2	127.8	112.9	113.9	117.1
250	112.1	112.7	124.9	125.5	111.7	112.7	115.8
315	109.9	110.5	122.6	123.1	110.5	111.5	114.5
400	107.7	108.3	120.1	120.7	109.3	110.3	113.1
500	105.4	106.0	117.6	118.2	108.0	109.0	111.6
630	103.0	103.6	115.0	115.6	106.6	107.6	109.9
800	100.6	101.2	112.2	112.8	105.2	106.2	108.2
1000	98.1	98.7	109.3	109.9	103.7	104.7	106.3
1250	95.5	96.1	106.2	106.8	102.1	103.1	104.2
1600	92.8	93.4	102.9	103.5	100.4	101.4	101.9
2000	90.0	90.6	99.6	100.2	98.6	99.6	99.5
2500	86.9	87.5	95.9	96.5	96.5	97.5	96.9
3150	83.5	84.1	91.9	92.5	94.1	95.1	93.8
4000	79.7	80.2	87.4	87.9	91.3	92.1	90.2
5000	75.4	75.8	82.5	82.9	88.0	88.6	86.1
6300	70.8	71.0	77.3	77.5	84.4	84.8	81.6
8000	66.5	66.6	72.9	73.0	81.1	81.3	78.0
10000	61.9	61.9	68.3	68.3	77.5	77.5	74.2
12500	56.8	56.8	63.3	63.3	73.4	73.4	70.3
16000	51.3	51.3	57.7	57.7	68.9	68.9	65.6
20000	45.2	45.2	51.6	51.6	63.8	63.8	60.5
25000	38.6	38.6	44.3	44.3	58.2	58.2	54.3

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-57E TAKEOFF POWER
100 % RPM
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-070-103-260176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


B-57E TAKEOFF POWER
100 % RPM
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-070-103-260176-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB



B-57E APPROACH POWER 82 % RPM

AIRSPEED = 150 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-070-105-260176

PNLT = 98.4 PNDB
PNL = 97.9 PNDB
ALT = 87.2 DBA
AL = 86.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-57E

OPERATION:
APPROACH POWER
82 % RPM
AIRSPEED = 150 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 070
OPS CODE: 105
PROFILE VER: A
26 JAN 76
PAGE H2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	81	80	80	87	93	94	88	92	94	94	93	94	94	93	92	92	91	89	88	89	84	81	79	80
250	79	78	78	85	91	92	86	90	92	92	91	92	92	91	90	90	89	87	86	86	81	78	76	76
315	77	76	76	83	89	90	84	88	90	90	89	89	90	89	88	88	87	84	83	84	79	75	73	72
400	75	74	74	81	87	87	82	86	88	88	87	87	87	87	86	86	84	82	81	81	76	72	69	68
500	73	72	72	79	85	85	80	84	86	86	85	85	85	85	84	83	82	80	78	78	73	69	65	63
630	71	70	70	77	83	83	78	82	84	84	83	83	83	83	82	81	80	77	75	75	70	65	61	58
800	69	68	68	75	80	81	76	80	82	82	81	81	81	80	79	79	77	74	72	72	66	61	56	51
1000	67	66	66	73	78	79<	74	78	80	79	79	79	79	78	77	76	74	72	69	68	62	56	50	43
1250	65	64	64	71	76	77	71	76	78	77	76	77	76	76	74	74	72	69	66	64	58	51	43	34
1600	63	62	62	69	74	75	69	74	76	75	74	74	74	73	72	71	68	65	62	60	53	45	35	23
2000	61	60	60	67	72	73	67	72	73	73	72	72	71	71	69	68	65	61	58	55	47	37	25	9
2500	59	58	57	64	70	71	65	69	71	70	69	69	69	68	66	64	62	57	53	48	40	28	13	
3150	57	56	55	62	68	69	63	67	69	68	67	67	66	65	63	61	57	53	47	41	32	18		
4000	55	54	53	60	66	67	61	65	67	66	64	64	63	62	59	57	53	47	40	33	22	5		
5000	53	52	51	58	64	64	58	62	64	63	62	61	60	58	55	52	48	41	33	23	11			
6300	50	50	49	56	61	62	56	60	61	60	59	58	56	54	51	47	41	33	23	10				
8000	48	48	47	54	59	60	53	57	59	57	55	54	52	50	45	41	34	25	12					
10000	46	45	45	51	57	57	51	55	56	54	52	50	48	44	40	34	26	14						
12500	44	43	42	49	54	55	48	52	52	50	48	46	43	38	33	25	15	1						
16000	42	41	40	46	52	52	45	48	49	46	43	41	37	31	24	15	3							
20000	39	39	37	44	49	49	42	45	45	42	38	35	30	23	14	3								
25000	37	36	35	41	46	46	38	41	41	37	32	28	21	13	2									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-57E

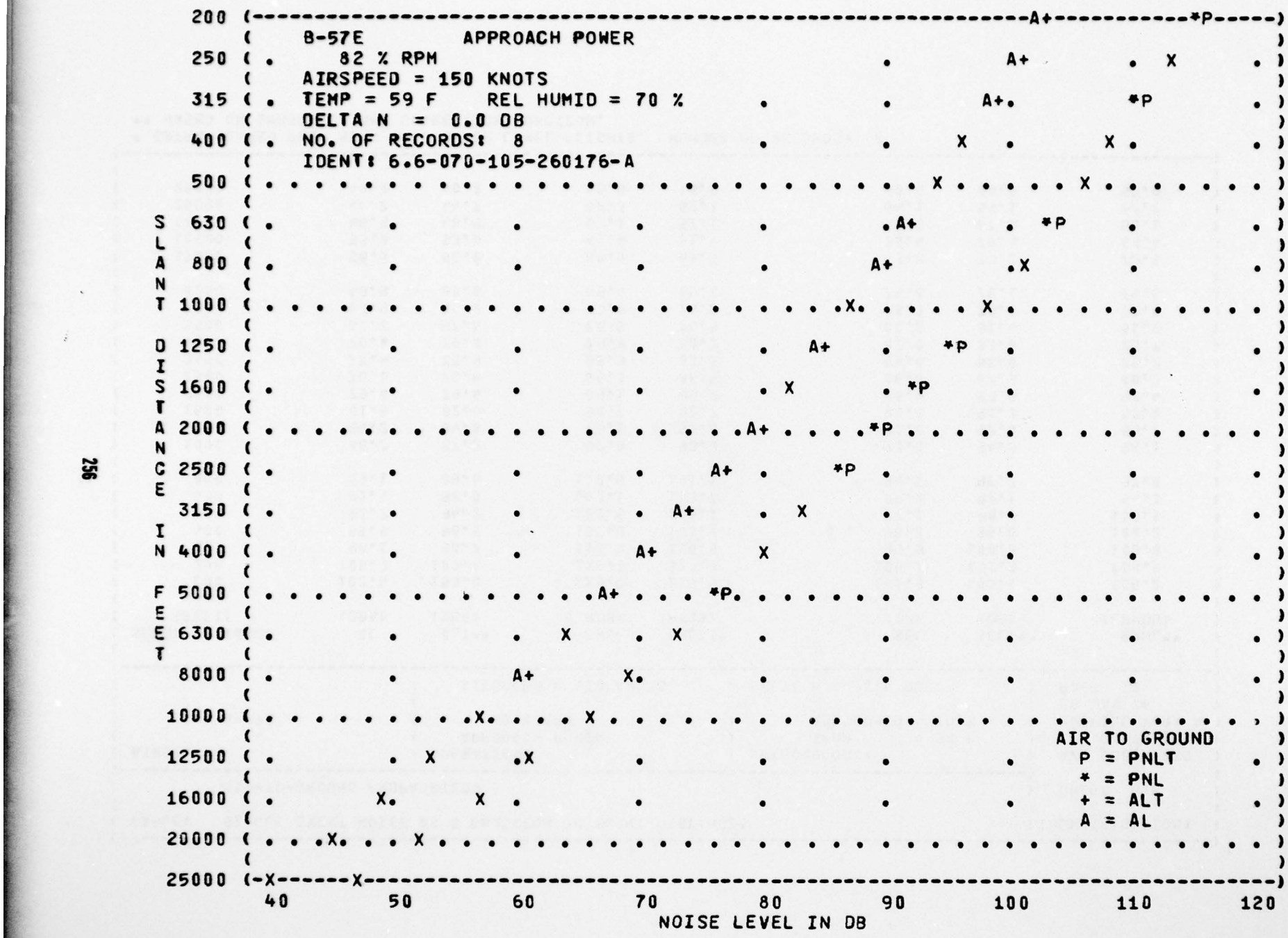
OPERATION:
APPROACH POWER
82 % RPM
AIRSPEED = 150 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 070
OPS CODE: 105
PROFILE VER: A
26 JAN 76
PAGE I2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	102.4	103.0	115.0	115.5	101.8	103.1	106.2
250	100.3	100.8	112.7	113.3	100.7	101.9	104.9
315	98.1	98.7	110.4	110.9	99.5	100.8	103.6
400	95.9	96.5	107.9	108.5	98.3	99.6	102.2
500	93.7	94.2	105.6	106.1	97.1	98.3	100.8
630	91.4	92.0	103.1	103.7	95.8	97.1	99.3
800	89.1	89.6	100.5	101.1	94.5	95.7	97.8
1000	86.7	87.2	97.9	98.4	93.0	94.3	96.1
1250	84.2	84.8	95.1	95.6	91.6	92.8	94.3
1600	81.6	82.2	92.2	92.7	90.0	91.3	92.4
2000	79.0	79.6	89.1	89.7	88.4	89.6	90.4
2500	76.3	76.8	86.0	86.5	86.6	87.9	88.2
3150	73.4	73.9	82.9	83.5	84.8	86.0	86.2
4000	70.4	70.8	79.8	80.2	82.8	83.8	83.7
5000	67.2	67.6	76.5	76.8	80.6	81.4	81.2
6300	63.9	64.2	73.0	73.2	78.3	78.8	78.5
8000	60.5	60.6	69.4	69.5	75.8	76.1	75.6
10000	56.8	56.8	65.5	65.5	73.2	73.2	72.5
12500	53.0	53.0	61.4	61.4	70.4	70.4	69.4
16000	48.9	48.9	57.1	57.1	67.3	67.3	66.1
20000	44.7	44.7	52.3	52.3	64.1	64.1	62.2
25000	40.2	40.2	46.9	46.9	60.6	60.6	57.9

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-57E APPROACH POWER
82 % RPM
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-070-105-260176-A
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

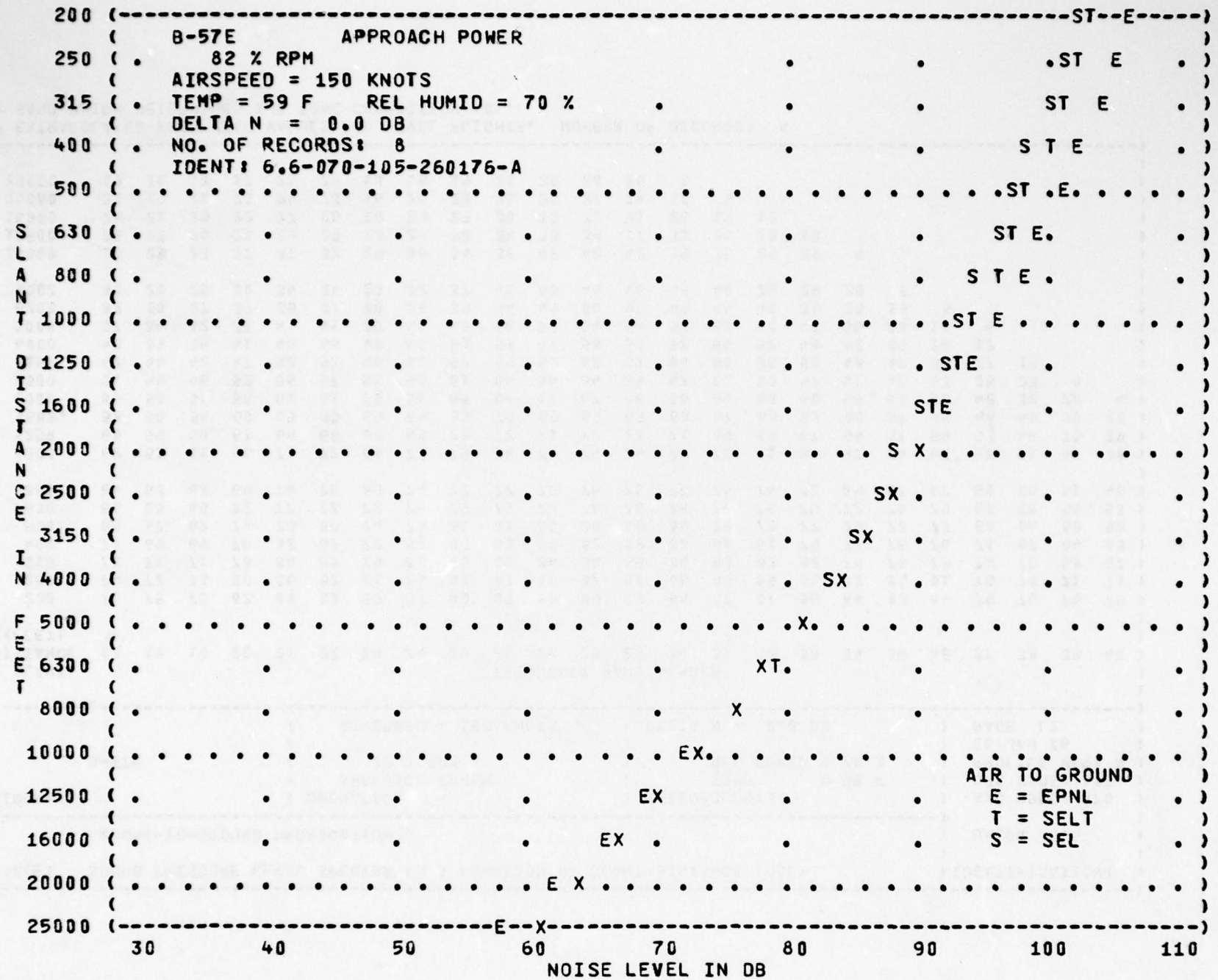

B-57E APPROACH POWER
82 % RPM
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-070-105-260176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
B-57E

OPERATION:
APPROACH POWER
82 % RPM
AIRSPEED = 150 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 070
OPS CODE: 105
PROFILE VER: A
26 JAN 76
PAGE L2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	76	75	75	82	88	89	83	87	89	89	88	89	89	88	87	87	86	84	83	84	79	76	74	75
250	74	73	73	80	86	87	81	85	87	87	86	87	87	86	85	85	84	82	81	81	76	73	71	71
315	72	71	71	78	84	85	79	83	85	85	84	84	85	84	83	83	82	79	78	79	74	70	68	67
400	70	69	69	76	82	82	77	81	83	83	82	82	82	82	81	81	79	77	76	76	71	67	64	63
500	68	67	67	74	79	80	74	79	81	81	80	80	80	80	79	78	77	75	73	73	68	64	60	58
630	66	65	65	72	77	77	72	76	79	79	78	78	78	78	77	76	75	72	70	70	65	60	56	53
800	64	63	63	69	74	75	69	74	77	77	76	76	76	75	74	74	72	69	67	67	61	56	51	46
1000	62	61	61	66	71	72<	66	71	75	74	74	74	74	73	72	71	69	67	64	63	57	51	45	38
1250	60	59	58	63	68	68	63	68	72	72	71	72	71	71	69	69	67	64	61	59	53	46	38	29
1600	58	56	54	60	65	65	59	64	69	70	69	69	69	68	67	66	63	60	57	55	48	40	30	18
2000	55	53	51	56	61	61	55	60	65	68	67	67	66	66	64	63	60	56	53	50	42	32	20	4
2500	51	49	46	52	56	57	51	56	61	64	64	64	64	63	61	59	57	52	48	43	35	23	8	
3150	47	44	42	47	52	52	46	51	57	60	61	62	61	60	58	56	52	48	42	36	27	13		
4000	43	39	36	41	46	46	40	45	51	55	57	58	58	57	54	52	48	42	35	28	17			
5000	37	34	32	37	41	41	35	40	45	50	53	54	54	53	50	47	43	36	28	18	6			
6300	32	30	27	32	36	37	30	35	39	44	49	50	50	49	46	42	36	28	18	5				
8000	30	28	25	30	34	34	28	32	37	41	45	46	46	45	40	36	29	20	7					
10000	28	25	23	27	32	32	25	30	34	38	42	42	42	39	35	29	21	9						
12500	26	23	20	25	29	29	23	27	30	34	38	38	37	33	28	20	10							
16000	24	21	18	22	27	26	20	23	27	30	33	33	31	26	19	10								
20000	21	19	15	20	24	23	16	20	23	26	28	27	24	18	9									
25000	19	16	13	17	21	20	13	16	19	21	22	20	15	8										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: B-57E

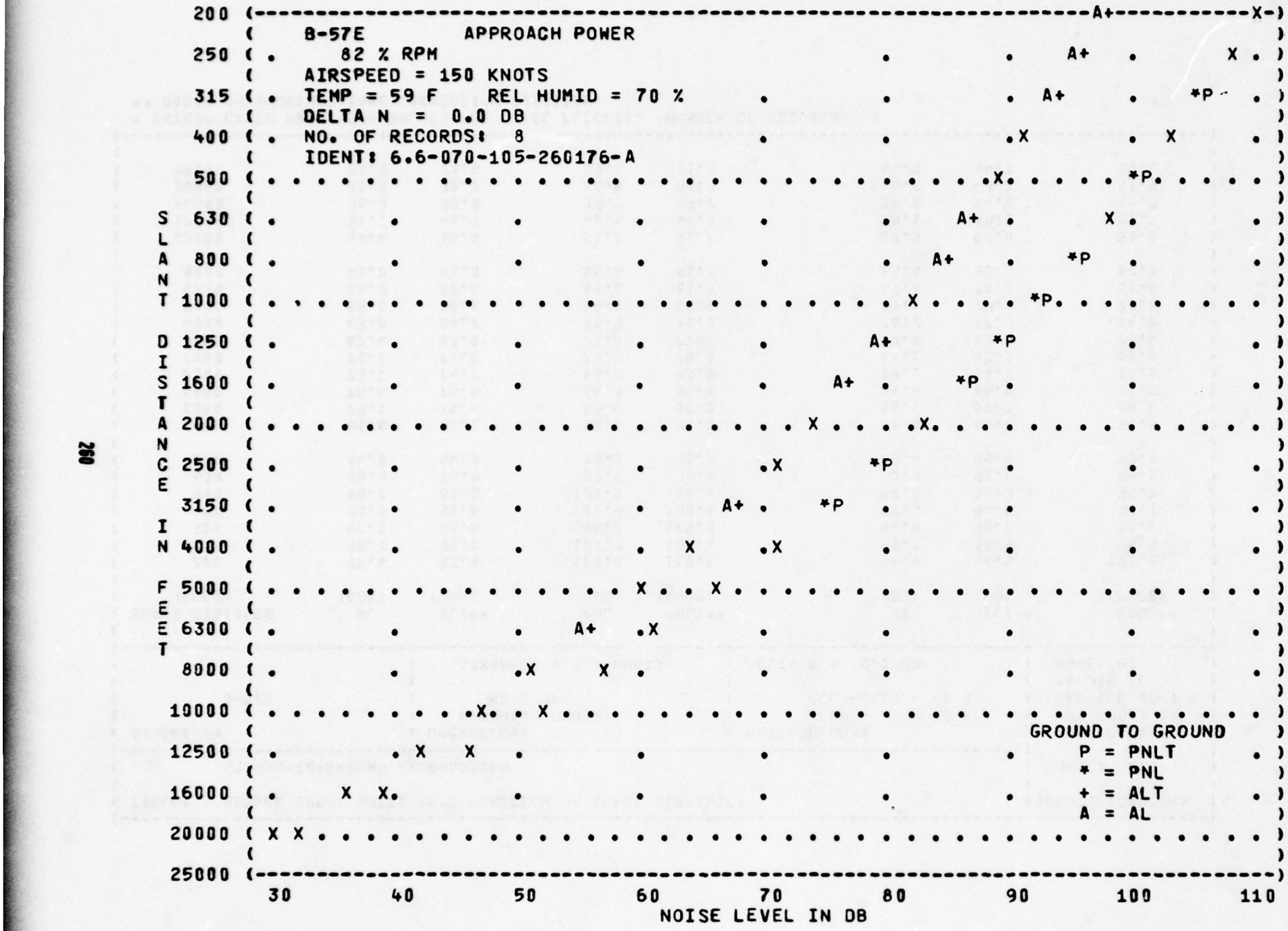
OPERATION: APPROACH POWER, 82 % RPM, AIRSPEED = 150 KNOTS

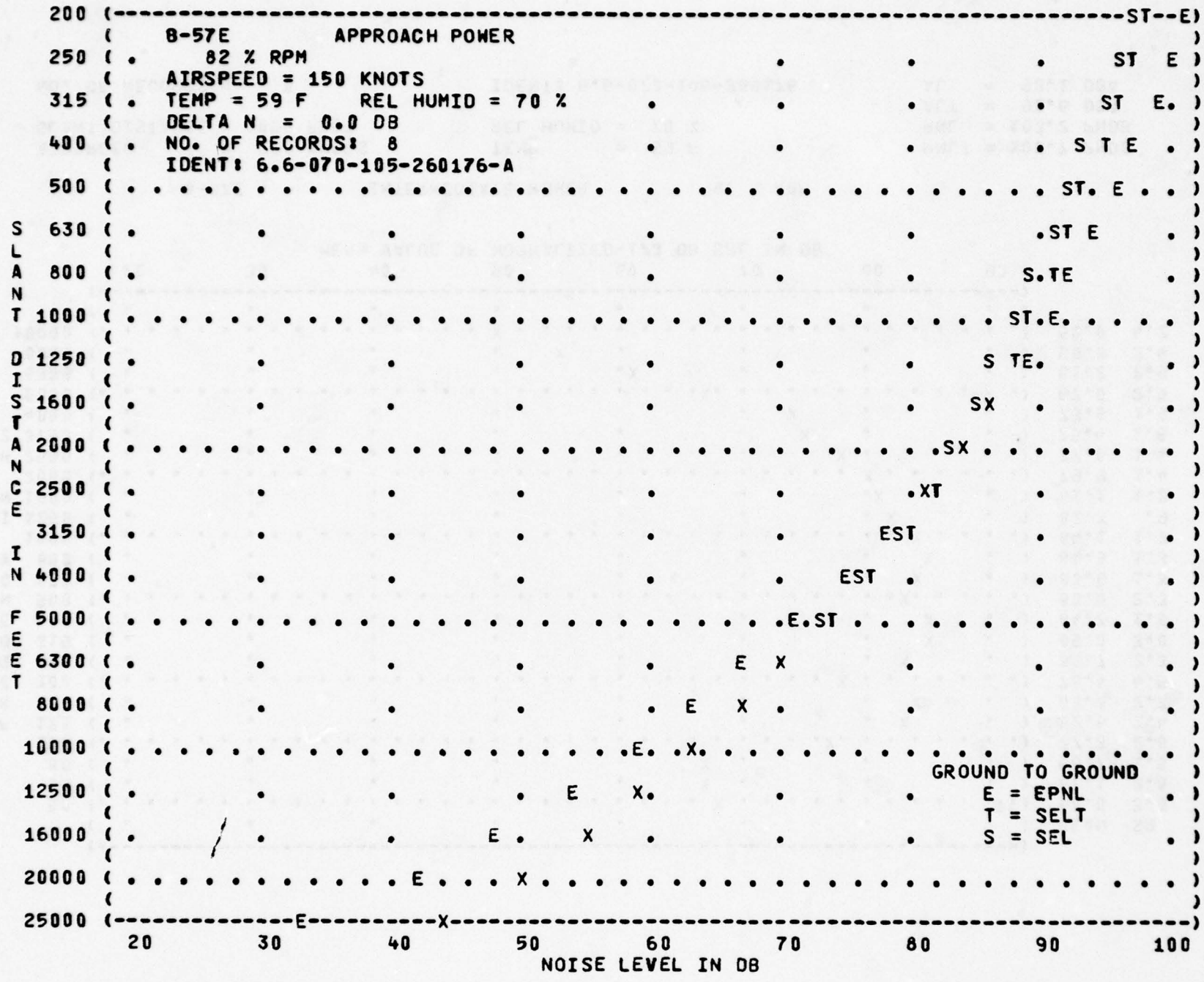
METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

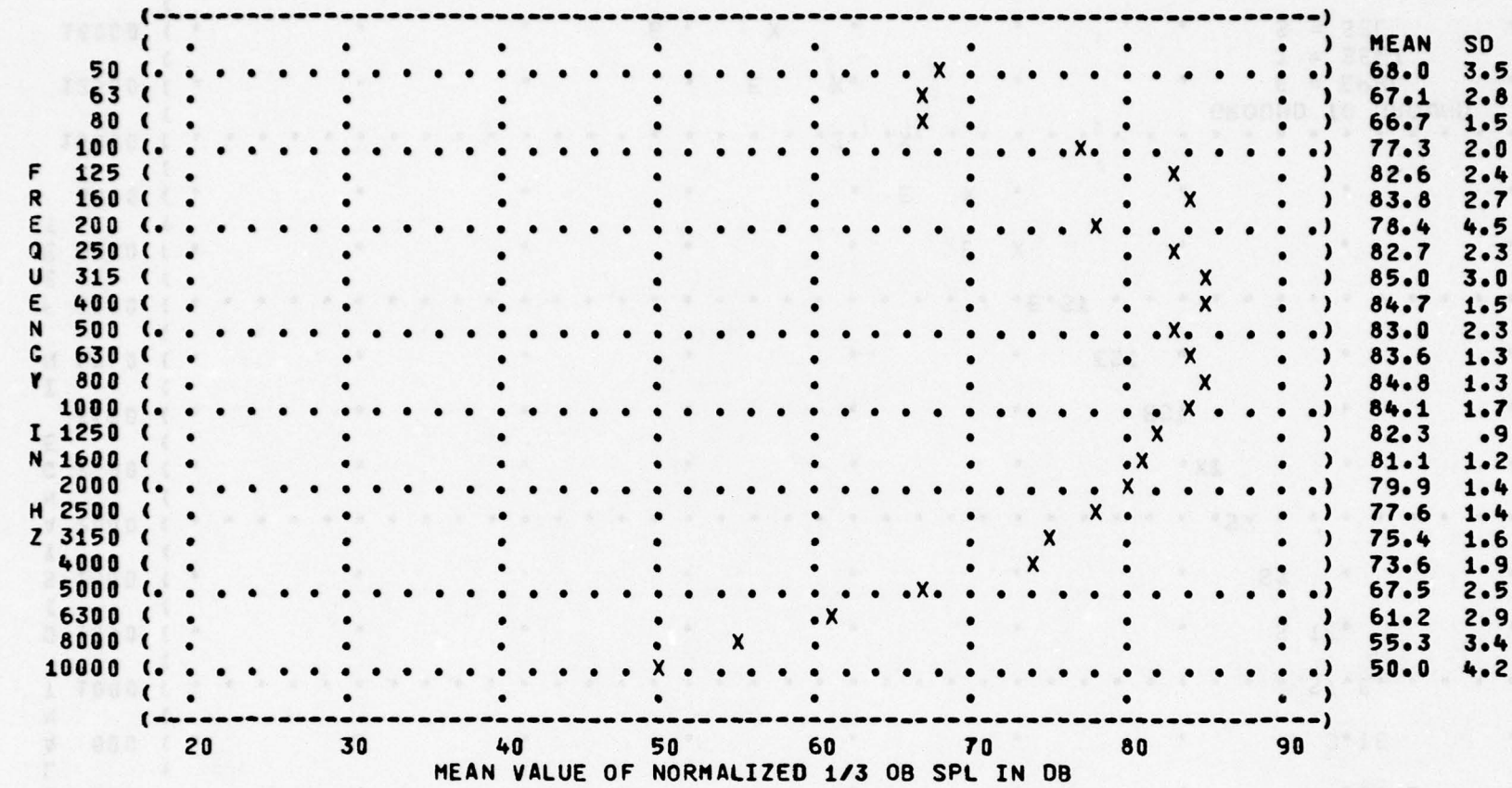
A/C CODE: 070
OPS CODE: 105
PROFILE VER: A
26 JAN 76
PAGE M2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	97.4	97.9	110.0	110.5	96.8	98.0	101.2
250	95.3	95.8	107.7	108.2	95.7	96.9	99.9
315	93.1	93.6	105.3	105.8	94.5	95.7	98.5
400	90.9	91.4	102.9	103.4	93.3	94.5	97.1
500	88.7	89.2	100.5	101.0	92.1	93.3	95.7
630	86.4	86.9	97.9	98.5	90.8	92.0	94.1
800	84.0	84.5	95.3	95.8	89.4	90.6	92.5
1000	81.6	82.1	92.5	93.0	88.0	89.2	90.6
1250	79.1	79.6	89.5	90.0	86.4	87.7	88.6
1600	76.4	76.9	86.3	86.8	84.8	86.0	86.5
2000	73.7	74.2	83.0	83.5	83.1	84.3	84.1
2500	70.7	71.2	79.3	79.8	81.1	82.3	81.5
3150	67.4	67.9	75.2	75.7	78.8	80.0	78.4
4000	63.8	64.2	70.9	71.3	76.2	77.2	74.8
5000	59.8	60.1	66.2	66.5	73.1	73.9	70.8
6300	55.3	55.6	61.1	61.3	69.7	70.2	66.6
8000	51.2	51.3	56.6	56.7	66.6	66.8	62.8
10000	46.6	46.6	51.7	51.7	63.0	63.0	58.6
12500	41.7	41.7	45.8	45.8	59.1	59.1	53.7
16000	36.3	36.3	39.2	39.2	54.6	54.6	48.2
20000	30.3	30.3	31.9	31.9	49.7	49.7	41.9
25000	23.9	23.9	21.6	21.6	44.3	44.3	32.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-57E APPROACH POWER
82 % RPM
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-070-105-260176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


B-57E APPROACH POWER
82 % RPM
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-070-105-260176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
20
30
40
50
60
70
80
90
100
NOISE LEVEL IN DB



8-57E INTERMEDIATE POWER 92 % RPM

AIRSPEED = 280 KNOTS
SLANT DISTANCE = 1000 FEET
NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %
IDENT: 6.6-070-106-260176

PNLT = 103.7 PNDB
PNL = 103.2 PNDB
ALT = 92.6 DBA
AL = 92.1 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 070
OPS CODE: 106
PROFILE VER: A
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AIRCRAFT: B-57E

OPERATION:
INTERMEDIATE POWER
92 % RPM
AIRSPEED = 280 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	82	81	81	91	97	98	93	97	99	99	98	98	100	99	98	97	97	95	94	94	89	86	85	87
250	80	79	79	89	95	96	91	95	97	97	96	96	98	97	96	95	94	93	92	92	87	83	82	83
315	78	77	77	87	93	94	89	93	95	95	93	94	96	95	94	93	92	91	89	89	84	80	79	80
400	76	75	75	85	91	92	87	91	93	93	91	92	94	93	91	91	90	88	87	86	81	77	75	75
500	74	73	73	83	89	90	85	89	91	91	89	90	91	91	89	88	88	86	84	84	78	74	71	70
630	72	71	71	81	87	88	83	87	89	89	87	88	89	89	87	86	85	83	82	81	75	70	67	65
800	70	69	69	79	85	86	80	85	87	87	85	86	87	86	85	84	83	80	79	77	71	66	61	58
1000	68	67	67	77	83	84<	78	83	85	85	83	84	85	84	82	81	80	78	75	74	67	61	55	50
1250	66	65	65	75	81	82	76	81	83	83	81	81	83	82	80	78	77	75	72	70	63	56	48	41
1600	64	63	63	73	79	80	74	79	81	80	78	79	80	79	77	76	74	71	68	65	58	49	40	29
2000	62	61	61	71	76	78	72	76	78	78	76	77	78	77	74	73	71	67	64	60	52	42	30	15
2500	60	59	59	69	74	75	70	74	76	76	74	74	75	74	71	69	67	63	59	53	45	33	18	
3150	58	57	56	67	72	73	68	72	74	73	71	72	72	71	68	66	63	58	53	46	37	22	3	
4000	56	55	54	65	70	71	65	70	72	71	69	69	69	67	64	62	58	53	46	38	27	9		
5000	54	53	52	63	68	69	63	67	69	68	66	66	66	64	60	57	53	47	38	27	15			
6300	52	51	50	61	66	66	61	65	66	65	63	62	62	60	56	52	47	39	29	15	1			
8000	49	48	48	58	63	64	58	62	64	62	60	59	58	55	51	46	40	30	18					
10000	47	46	46	56	61	62	56	59	61	59	56	55	54	50	45	38	31	19	4					
12500	45	44	43	54	58	59	53	56	57	56	52	50	49	44	38	30	21	6						
16000	43	42	41	51	56	56	50	53	54	52	48	45	42	37	29	20	8							
20000	41	39	38	48	53	53	47	50	50	47	42	39	35	29	19	7								
25000	38	37	36	46	50	50	43	46	45	42	36	32	27	19	7									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: B-57E

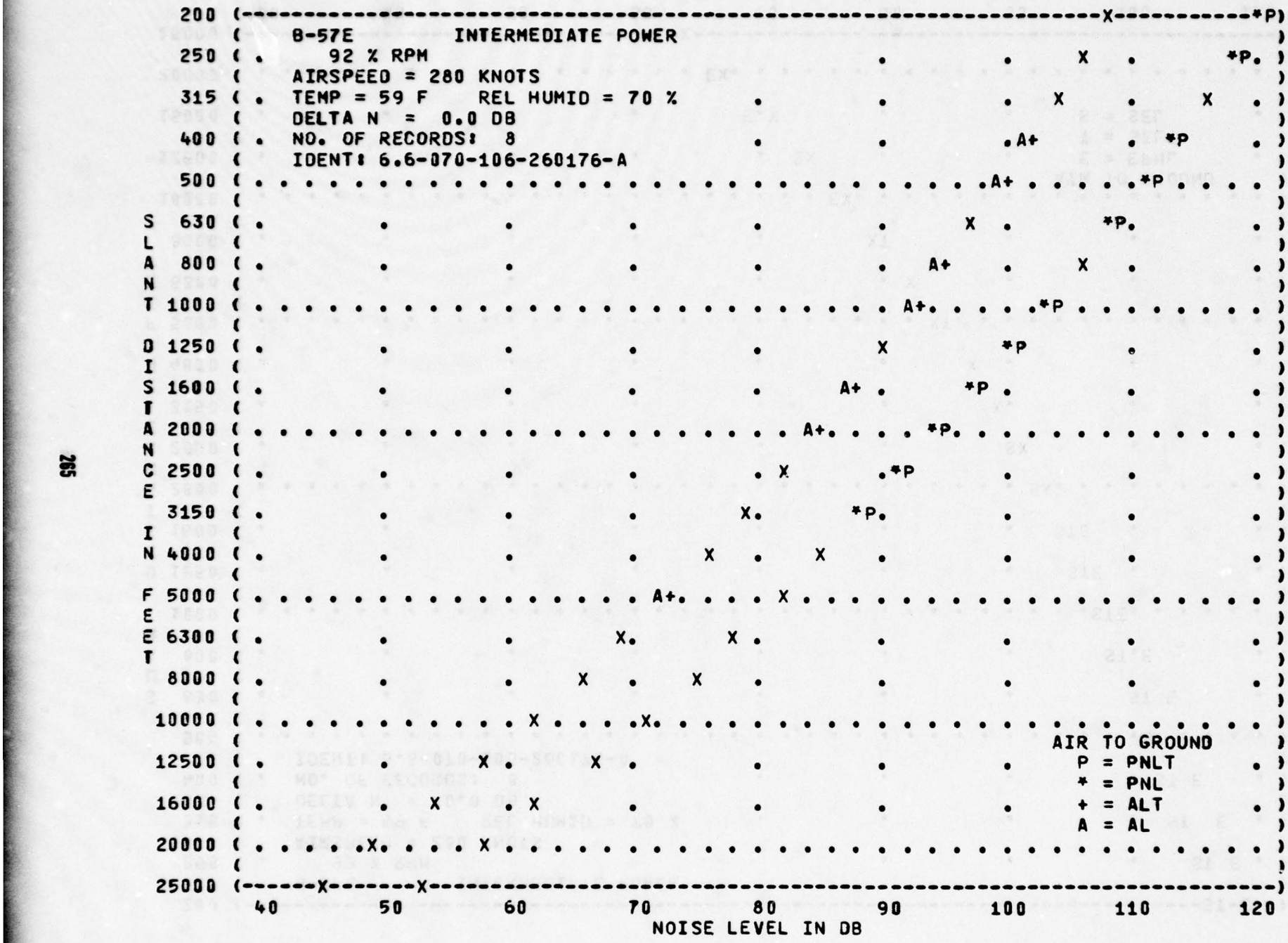
OPERATION:
INTERMEDIATE POWER
92 % RPM
AIRSPEED = 280 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 070
OPS CODE: 106
PROFILE VER: A
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PAGE I3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	107.9	108.4	120.2	120.8	105.8	106.7	109.3
250	105.8	106.3	118.0	118.5	104.7	105.6	108.1
315	103.6	104.1	115.7	116.3	103.5	104.4	106.8
400	101.4	101.9	113.4	113.9	102.3	103.2	105.5
500	99.1	99.7	111.0	111.5	101.0	101.9	104.1
630	96.8	97.4	108.4	109.0	99.7	100.7	102.6
800	94.5	95.0	105.9	106.4	98.4	99.3	101.0
1000	92.1	92.6	103.2	103.7	97.0	97.9	99.3
1250	89.6	90.1	100.4	100.9	95.5	96.4	97.5
1600	87.0	87.6	97.4	98.0	93.9	94.8	95.5
2000	84.4	84.9	94.3	94.8	92.2	93.2	93.4
2500	81.6	82.1	91.2	91.8	90.5	91.4	91.4
3150	78.7	79.2	88.2	88.7	88.6	89.5	89.3
4000	75.6	76.1	85.0	85.4	86.5	87.3	86.9
5000	72.4	72.8	81.7	82.0	84.3	84.9	84.4
6300	69.1	69.3	78.2	78.4	82.0	82.3	81.8
8000	65.5	65.6	74.6	74.7	79.4	79.6	79.0
10000	61.8	61.8	70.7	70.7	76.7	76.7	75.9
12500	57.9	57.9	66.7	66.7	73.8	73.8	72.9
16000	53.7	53.7	62.3	62.3	70.6	70.6	69.5
20000	49.4	49.4	57.6	57.6	67.3	67.3	65.8
25000	44.9	44.9	52.5	52.5	63.8	63.8	61.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-57E INTERMEDIATE POWER
92 % RPM
AIRSPEED = 280 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-070-106-260176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

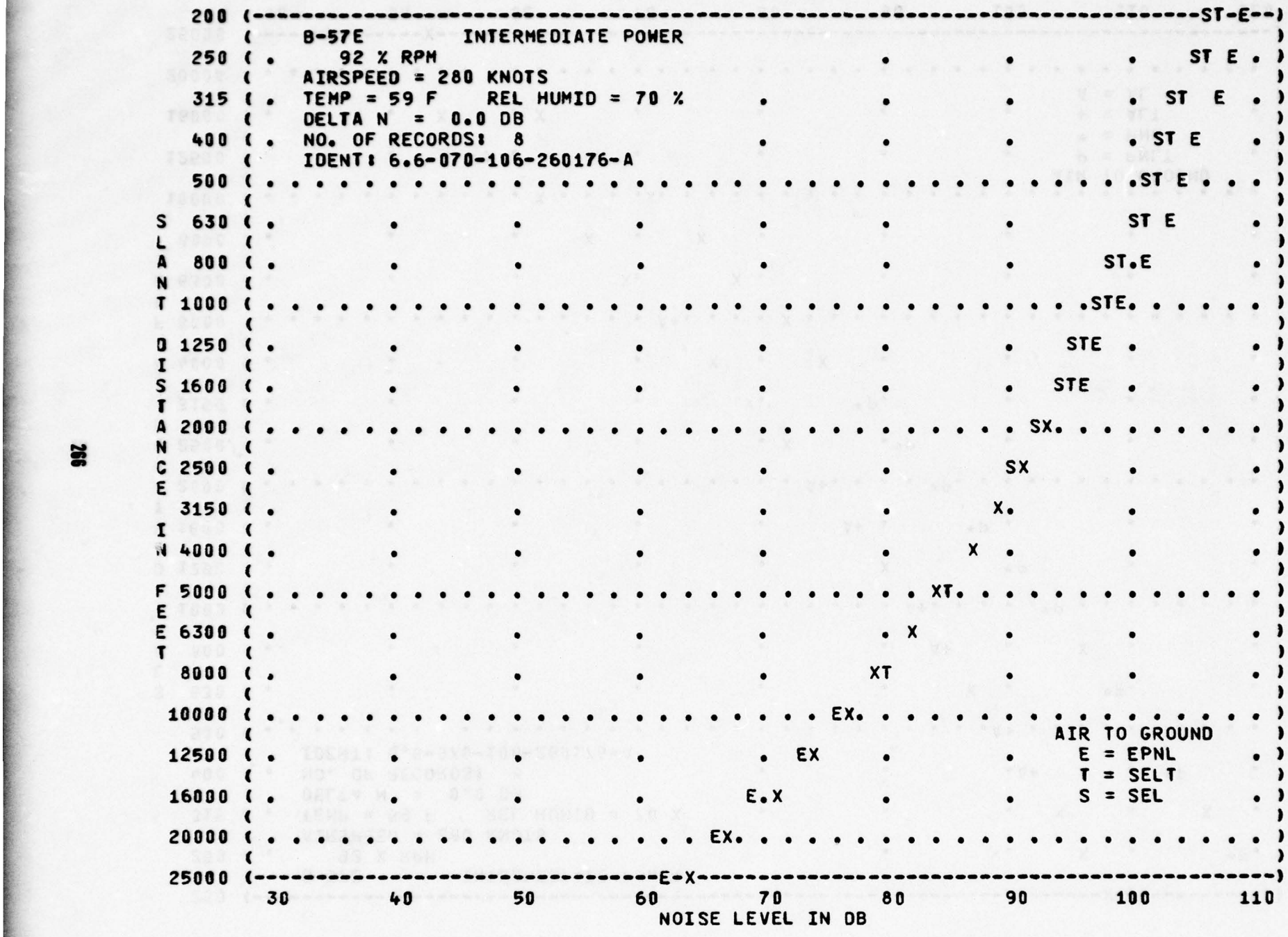

B-57E INTERMEDIATE POWER
92 % RPM
AIRSPEED = 280 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-070-106-260176-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
B-57E

OPERATION:
INTERMEDIATE POWER
92 % RPM
AIRSPEED = 280 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 070
OPS CODE: 106
PROFILE VER: A
26 JAN 76
PAGE L3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	77	76	76	86	92	93	88	92	94	94	93	93	95	94	93	92	92	90	89	89	84	81	80	82
250	75	74	74	84	90	91	86	90	92	92	91	91	93	92	91	90	89	88	87	87	82	78	77	78
315	73	72	72	82	88	89	84	88	90	90	88	89	91	90	89	88	87	86	84	84	79	75	74	75
400	71	70	70	80	86	87	81	86	88	88	86	87	89	88	86	86	85	83	82	81	76	72	70	70
500	69	68	68	78	84	84	79	84	86	86	84	85	86	86	84	83	83	81	79	79	73	69	66	65
630	67	66	66	76	81	82	76	81	84	84	82	83	84	84	82	81	80	78	77	76	70	65	62	60
800	65	64	64	74	78	79	74	78	82	82	80	81	82	81	80	79	78	75	74	72	66	61	56	53
1000	63	62	62	71	75	76<	71	75	80	80	78	79	80	79	77	76	75	73	70	69	62	56	50	45
1250	61	60	59	68	72	73	67	72	77	78	76	76	78	77	75	73	72	70	67	65	58	51	43	36
1600	59	57	55	64	69	69	64	69	74	75	73	74	75	74	72	71	69	66	63	60	53	44	35	24
2000	56	53	52	61	65	66	60	65	70	73	71	72	73	72	69	68	66	62	59	55	47	37	25	10
2500	52	49	47	56	61	61	56	60	66	69	69	69	70	69	66	64	62	58	54	48	40	28	13	
3150	48	45	43	52	56	56	51	55	62	65	65	67	67	66	63	61	58	53	48	41	32	17		
4000	44	40	37	46	50	51	45	50	56	60	61	63	64	62	59	57	53	48	41	33	22	4		
5000	39	35	33	41	45	46	40	45	50	55	57	59	60	59	55	52	48	42	33	22	10			
6300	34	31	28	37	41	41	35	40	44	49	53	54	56	55	51	47	42	34	24	10				
8000	31	28	26	34	38	39	33	37	42	46	50	51	52	50	46	41	35	25	13					
10000	29	26	24	32	36	36	30	34	39	43	46	47	48	45	40	33	26	14						
12500	27	24	21	30	33	33	27	31	35	40	42	42	43	39	33	25	16	1						
16000	25	22	19	27	31	31	24	28	32	36	38	37	36	32	24	15	3							
20000	23	19	16	24	28	28	21	25	28	31	32	31	29	24	14	2								
25000	20	17	14	22	25	24	18	21	23	26	26	24	21	14	2									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: B-57E

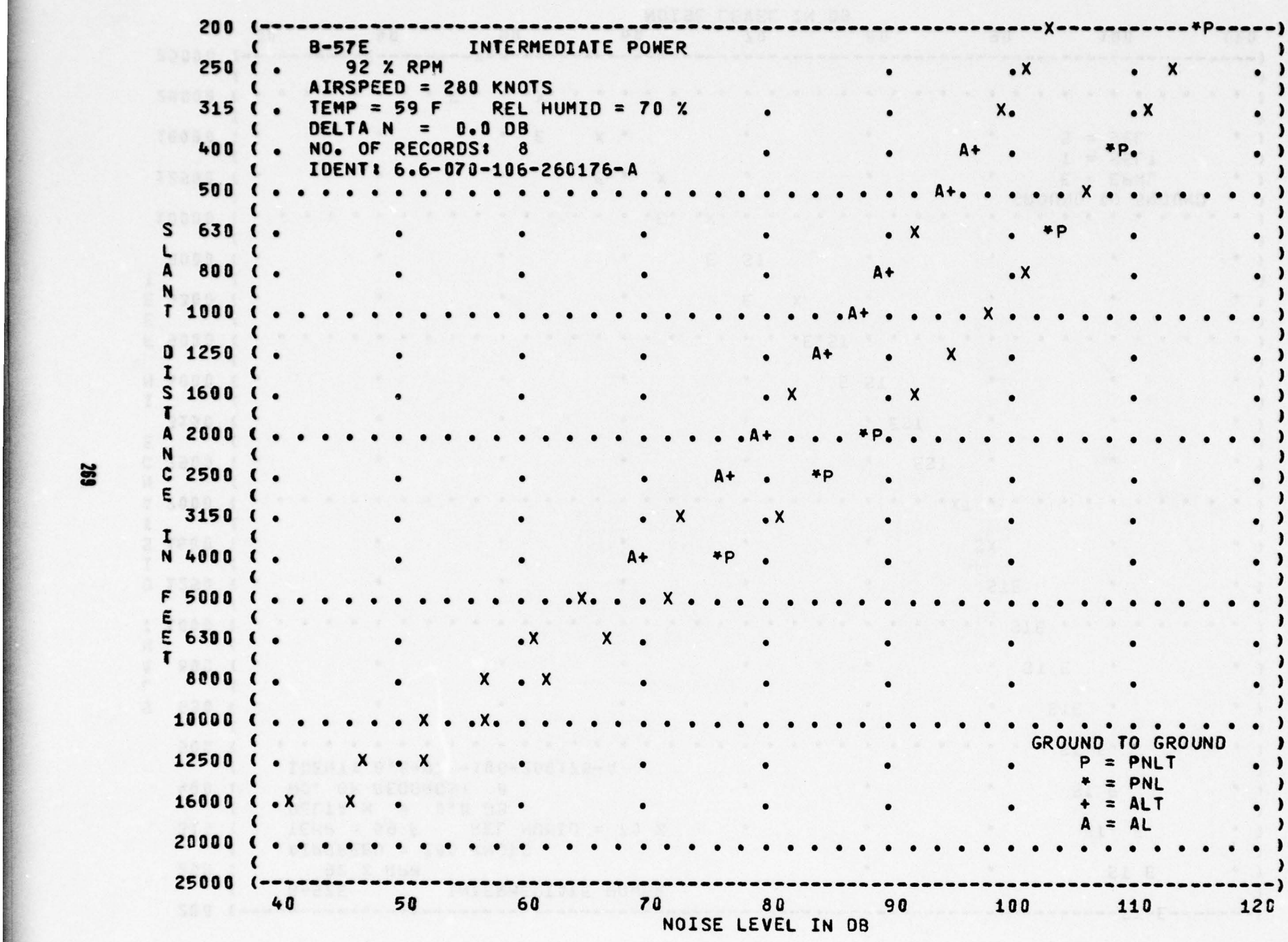
OPERATION: INTERMEDIATE POWER, 92 % RPM, AIRSPEED = 280 KNOTS

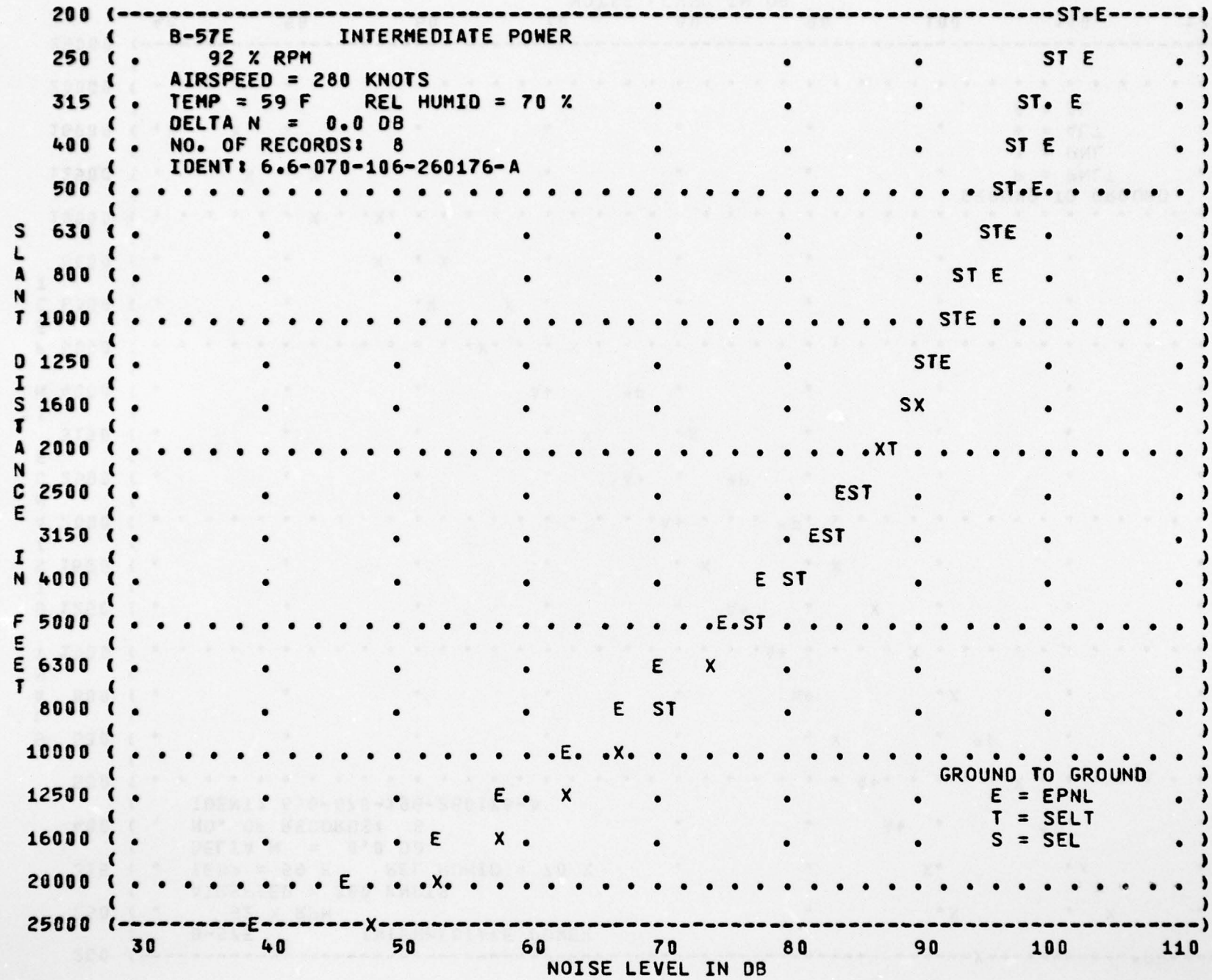
METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 070
OPS CODE: 106
PROFILE VER: A
26 JAN 76
PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	102.9	103.4	115.2	115.7	100.8	101.7	104.3
250	100.8	101.3	113.0	113.5	99.7	100.5	103.0
315	98.6	99.1	110.7	111.2	98.5	99.4	101.8
400	96.4	96.9	108.3	108.9	97.3	98.1	100.4
500	94.1	94.6	105.9	106.4	96.0	96.9	99.0
630	91.8	92.3	103.3	103.8	94.7	95.6	97.4
800	89.5	90.0	100.7	101.2	93.4	94.2	95.7
1000	87.0	87.5	97.9	98.4	91.9	92.8	93.9
1250	84.5	85.0	94.8	95.3	90.4	91.2	91.9
1600	81.8	82.3	91.6	92.1	88.7	89.6	89.7
2000	79.1	79.6	88.2	88.7	87.0	87.8	87.2
2500	76.1	76.6	84.4	84.9	85.0	85.8	84.5
3150	72.8	73.3	80.6	81.1	82.7	83.6	81.7
4000	69.2	69.6	76.4	76.8	80.1	80.8	78.3
5000	65.2	65.5	71.9	72.2	77.1	77.6	74.6
6300	60.8	61.0	66.9	67.1	73.7	74.0	70.4
8000	56.5	56.6	62.4	62.5	70.4	70.6	66.7
10000	51.9	51.9	57.3	57.3	66.8	66.8	62.5
12500	46.9	46.9	51.7	51.7	62.8	62.8	57.9
16000	41.3	41.3	45.5	45.5	58.2	58.2	52.7
20000	35.2	35.2	38.1	38.1	53.1	53.1	46.3
25000	28.6	28.6	29.4	29.4	47.5	47.5	38.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


B-57E INTERMEDIATE POWER
92 % RPM
AIRSPEED = 280 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-070-106-260176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


B-57E INTERMEDIATE POWER
92 % RPM
AIRSPEED = 280 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-070-106-260176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL

USAF B-57G AIRCRAFT B-57G AIRCRAFT B-57G AIRCRAFT B-57G AIRCRAFT USAF

NOISE PRODUCED ON THE GROUND BY

B-57G AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-004-016
AIRCRAFT CODE: 070
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING — PAGE

IDLE 50% RPM . . . . . 272 - 277
85% RPM . . . . . 278 - 283
MIL PWR 101% RPM . . . . . 284 - 289

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF B-57G AIRCRAFT B-57G AIRCRAFT B-57G AIRCRAFT B-57G AIRCRAFT USAF

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
B-57G AIRCRAFT
ENG. J65-W5D
GROUND RUNUP

OPERATION:
IDLE, 50% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-016
RUN 01
AIRCRAFT CODE 070
OPERATION CODE 02013
PROFILE VERSION A
31 MAR 76
PAGE C1

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	64	66	65	64	65	65	65	65	65	67	68	67	69	70	71	74	74	74	70
63	66	68	68	66	65	64	65	68	69	70	72	72	73	71	70	73	73	74	69
80	70	69	70	68	65	66	70	71	72	72	73	73	74	73	72	73	73	75	69
100	69	69	69	67	67	67	68	69	70	69	71	71	71	73	72	73	72	73	65
125	70	69	69	69	69	67	65	70	72	71	74	72	73	73	72	74	73	73	66
160	73	72	70	70	69	70	70	74	74	74	75	76	75	75	72	72	72	73	65
200	83	81	80	80	82	85	79	81	77	81	84	85	86	87	80	79	78	81	74
250	73	70	71	70	71	71	69	72	70	72	75	76	77	77	70	68	68	71	64
315	74	74	73	73	71	71	69	70	70	70	72	74	74	72	68	65	63	64	59
400	76	77	76	75	73	72	72	71	72	73	74	77	77	76	72	68	64	65	59
500	77	76	75	74	72	70	70	71	72	70	74	77	78	74	70	66	64	64	60
630	76	77	75	74	74	68	68	67	67	66	69	70	74	67	62	62	59	58	56
800	81	81	80	78	78	73	72	72	72	71	74	76	74	71	66	64	61	60	57
1000	82	83	81	78	78	74	72	71	70	69	74	76	75	68	63	63	60	60	57
1250	81	83	81	79	78	77	73	73	72	70	72	75	72	67	62	61	58	60	56
1600	80	84	83	81	80	78	76	74	72	70	67	70	67	60	58	56	55	58	53
2000	82	86	88	84	84	83	79	77	75	72	69	70	64	59	59	55	55	59	54
2500	84	89	92	87	86	90	84	83	81	76	74	73	67	61	61	59	58	62	58
3150	87	89	90	85	87	85	82	78	77	74	70	71	63	59	60	55	55	59	54
4000	90	91	90	84	86	84	80	78	75	72	69	70	62	58	59	54	54	57	52
5000	85	85	87	83	86	85	83	78	74	70	68	68	60	58	58	52	52	56	51
6300	83	83	85	80	80	80	81	75	71	67	64	65	57	56	56	50	50	53	49
8000	84	83	84	80	79	78	74	70	66	62	60	67	57	53	52	47	47	50	46
10000	77	78	79	75	74	74	71	66	62	56	54	54	48	47	47	40	42	45	41
OVERALL	96	97	98	94	94	95	91	89	87	86	88	89	89	89	84	84	83	85	78

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-57G AIRCRAFT
ENG. J65-W5D
GROUND RUNUP

OPERATION:
IDLE, 50% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-016
RUN 01
AIRCRAFT CODE 070
OPERATION CODE 02013
PROFILE VERSION A
31 MAR 76
PAGE D1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	113.6	113.8	114.4	110.2	110.5	111.3	106.9	105.4	103.4	100.4	99.3	100.2	98.4	97.1	92.7	90.8	89.9	92.2	86.0
250	110.6	111.5	112.1	107.9	108.2	109.0	104.6	103.1	101.1	98.1	97.1	97.9	96.2	94.9	90.5	88.6	87.7	90.0	83.9
315	108.1	109.0	109.7	105.5	105.8	106.7	102.2	100.8	98.8	95.8	94.8	95.6	94.1	92.8	88.3	86.4	85.5	87.8	81.5
400	105.6	106.5	107.3	103.1	103.4	104.3	99.8	98.4	96.4	93.4	92.4	93.3	91.8	90.5	86.0	84.1	83.2	85.5	79.1
500	102.9	103.8	104.7	100.6	100.8	101.8	97.2	95.8	93.9	90.9	89.9	90.8	89.3	88.0	83.5	81.6	80.6	83.0	76.5
630	100.0	100.9	102.1	97.9	98.0	99.1	94.6	93.2	91.2	88.3	87.4	88.2	86.8	85.4	80.8	78.8	77.8	80.2	73.7
800	96.9	97.9	99.2	95.1	95.1	96.3	91.7	90.4	88.5	85.5	84.6	85.5	84.1	82.7	77.9	76.0	75.0	77.3	70.8
1000	93.6	94.7	96.2	92.1	91.9	93.3	88.7	87.4	85.5	82.6	81.7	82.6	81.1	79.7	74.9	73.0	71.9	74.3	67.8
1250	89.9	91.4	93.0	88.9	88.6	90.1	85.4	84.2	82.3	79.4	78.6	79.5	77.9	76.5	71.6	69.7	68.6	70.9	64.3
1600	85.9	87.8	89.5	85.4	85.1	86.5	81.9	80.7	78.9	76.0	75.2	76.1	74.4	72.9	68.2	66.1	64.9	67.3	60.6
2000	81.7	84.0	85.7	81.6	81.3	82.7	78.0	76.9	75.1	72.3	71.5	72.4	71.2	69.0	65.0	62.4	60.8	63.2	56.3
2500	77.2	79.8	81.5	77.5	77.0	78.5	73.8	72.7	71.0	68.1	67.5	68.6	67.7	64.5	60.8	58.2	56.1	58.4	51.5
3150	72.3	75.1	76.8	72.9	72.4	73.8	69.0	68.0	66.3	63.4	62.8	64.4	63.7	60.1	56.1	53.2	50.8	53.0	46.2
4000	67.0	69.9	71.5	67.6	67.1	68.5	63.6	62.6	61.0	58.1	57.8	59.8	59.1	55.3	50.8	47.5	45.1	46.4	40.5
5000	61.4	64.2	65.6	61.8	61.2	62.5	57.6	56.7	54.9	52.0	52.8	54.9	54.2	50.1	45.1	41.2	38.8	40.3	33.6
6300	55.9	58.1	58.8	55.3	54.9	55.5	50.5	49.5	47.6	45.1	47.1	49.5	48.9	44.3	38.7	34.5	31.6	32.7	24.7
8000	50.5	51.9	51.9	48.6	48.0	47.8	42.8	41.4	40.6	39.2	41.8	44.3	44.4	39.5	32.9	29.1	24.9	25.2	14.2
10000	44.5	45.4	44.4	42.0	41.3	37.8	34.7	34.3	33.5	32.1	35.6	38.6	39.2	34.8	27.6	21.5	14.9	14.3	3.7
12500	37.4	37.9	36.7	34.2	33.9	29.0	24.8	24.6	24.5	22.7	28.8	32.6	33.1	28.0	19.0	11.3	4.9	3.3	
16000	29.1	29.1	27.1	23.9	23.3	13.3	11.6	12.8	13.7	11.6	18.7	25.0	26.6	19.4	8.6	1.2			
20000	16.2	15.9	12.7	9.2	12.7			1.1	2.8	.4	7.2	13.6	15.3	7.8					
25000	3.4	2.8			2.1							2.3	4.0						

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-57G AIRCRAFT
ENG. J65-W5D
GROUND RUNUP

OPERATION:
IDLE, 50% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-016
RUN 01
AIRCRAFT CODE 070
OPERATION CODE 02013
PROFILE VERSION A
31 MAR 76
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	114.7	115.5	116.0	111.8	112.5	113.7	108.2	107.1	104.9	101.7	100.8	101.6	100.2	99.0	94.3	92.3	91.3	93.7	87.7
250	112.3	113.1	113.8	109.5	110.2	111.5	105.9	104.9	102.7	99.5	98.6	99.3	98.0	96.9	92.1	90.1	89.1	91.5	85.5
315	109.8	110.7	111.4	107.2	107.8	109.1	103.6	102.6	100.3	97.2	96.3	97.0	95.9	94.7	89.9	87.9	86.9	89.3	83.1
400	107.3	108.1	109.0	104.7	105.4	106.7	101.2	100.1	97.9	94.8	93.9	94.7	93.6	92.4	87.5	85.6	84.6	86.9	80.7
500	104.6	105.5	106.4	102.2	102.8	104.2	98.6	97.6	95.4	92.3	91.5	92.2	91.1	90.0	85.0	83.0	82.0	84.4	78.1
630	101.7	102.6	103.8	99.5	100.0	101.5	95.9	95.0	92.8	89.7	88.9	89.6	88.6	87.4	82.3	80.3	79.3	81.7	75.3
800	98.6	99.5	100.9	96.7	97.1	98.7	93.1	92.2	90.0	86.9	86.2	86.9	85.9	84.6	79.4	77.5	76.4	78.8	72.4
1000	95.3	96.4	97.9	93.7	93.9	95.7	90.0	89.2	87.1	84.0	83.3	84.0	82.9	81.7	76.4	74.4	73.3	75.7	69.4
1250	91.6	93.0	94.7	90.5	90.6	92.5	86.8	85.0	83.9	80.8	80.1	80.9	79.7	78.4	73.1	71.1	70.0	72.4	65.9
1600	87.6	89.4	91.2	87.0	87.1	89.0	83.2	82.5	80.4	77.4	76.8	77.5	76.2	74.8	69.7	67.6	66.4	68.7	62.2
2000	83.4	85.6	87.4	83.3	83.3	85.2	79.4	78.7	76.7	73.6	73.1	73.8	73.0	70.9	66.5	63.8	62.2	64.7	57.9
2500	78.9	81.4	83.2	79.1	79.0	80.9	75.1	74.5	72.5	69.5	69.0	70.0	69.5	66.5	62.3	59.6	57.5	59.9	53.1
3150	74.0	76.8	78.5	74.5	74.4	76.2	70.4	69.8	67.9	64.8	64.4	65.8	65.5	62.0	57.6	54.7	52.2	54.5	47.8
4000	68.4	71.2	72.9	68.9	68.7	70.4	64.7	64.0	62.2	59.2	59.1	60.9	60.6	56.9	52.0	48.7	46.3	47.5	41.8
5000	62.4	65.2	66.6	62.7	62.4	63.9	58.4	57.7	55.8	52.8	53.8	55.7	55.3	51.3	46.1	42.1	39.6	41.2	34.6
6300	56.6	58.8	59.5	56.0	55.7	56.5	51.1	50.2	48.2	45.6	47.7	50.0	49.6	45.1	39.3	35.1	32.2	33.3	25.3
8000	50.9	52.2	52.3	48.9	48.4	48.2	43.0	41.8	41.0	39.5	42.1	44.6	44.8	39.9	33.2	29.4	25.2	25.5	14.5
10000	44.5	45.4	44.4	42.6	41.3	37.8	34.7	34.3	33.5	32.1	35.6	38.6	39.2	34.8	27.6	21.5	14.9	14.3	3.7
12500	37.4	37.9	36.7	34.2	33.9	29.0	24.8	24.6	24.5	22.7	28.8	32.6	33.1	28.0	19.0	11.3	4.9	3.3	
16000	29.1	29.1	27.1	23.9	23.3	13.3	11.6	12.8	13.7	11.6	18.7	25.0	26.6	19.4	8.6	1.2			
20000	16.2	15.9	12.7	9.2	12.7			1.1	2.8	.4	7.2	13.6	15.3	7.8					
25000	3.4	2.8			2.1							2.3	4.0						

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-37G AIRCRAFT
ENG. J65-W5D
GROUND RUNUP

OPERATION:
IDLE, 50% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-016
RUN 01
AIRCRAFT CODE 070
OPERATION CODE 02013
PROFILE VERSION A
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PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	98.2	99.9	101.0	96.4	97.0	97.2	93.3	90.7	88.6	85.6	85.0	86.6	85.1	82.5	77.8	75.7	74.2	76.3	70.8
250	95.9	97.6	98.7	94.1	94.6	94.9	91.0	88.5	86.4	83.4	82.9	84.5	83.0	80.5	75.7	73.6	72.1	74.2	68.6
315	93.4	95.2	96.3	91.8	92.3	92.6	88.6	86.1	84.1	81.1	80.7	82.3	80.9	78.4	73.6	71.5	70.0	72.1	66.5
400	90.9	92.8	93.8	89.3	89.8	90.2	86.1	83.7	81.7	78.8	78.5	80.1	78.8	76.3	71.5	69.4	67.9	69.9	64.3
500	88.3	90.2	91.3	86.8	87.2	87.6	83.5	81.2	79.2	76.4	76.2	77.9	76.6	74.0	69.2	67.1	65.5	67.5	62.0
630	85.5	87.5	88.6	84.2	84.5	85.0	80.8	78.6	76.7	73.9	73.8	75.5	74.3	71.5	66.8	64.8	63.1	65.1	59.6
800	82.6	84.8	85.8	81.5	81.7	82.2	77.9	75.9	74.0	71.3	71.3	73.0	72.0	69.2	64.4	62.4	60.7	62.5	57.1
1000	79.6	81.8	82.9	78.6	78.7	79.3	74.9	73.0	71.2	68.5	68.8	70.6	69.6	66.7	61.9	59.9	58.1	59.8	54.5
1250	76.4	78.7	79.8	75.6	75.6	76.2	71.7	69.9	68.2	65.7	66.1	68.0	67.1	64.0	59.4	57.2	55.3	57.0	51.8
1600	73.1	75.5	76.4	72.4	72.3	72.9	68.4	66.7	65.1	62.7	63.4	65.3	64.5	61.3	56.7	54.5	52.4	54.0	48.9
2000	69.6	72.0	72.9	69.0	68.7	69.2	64.8	63.3	61.8	59.5	60.5	62.5	61.9	58.5	53.9	51.7	49.4	50.8	45.9
2500	66.0	68.4	69.0	65.4	65.0	65.3	61.0	59.6	58.2	56.1	57.4	59.5	58.9	55.2	50.7	48.5	46.2	47.3	42.5
3150	62.3	64.5	64.9	61.5	61.0	61.0	56.9	55.6	54.3	52.4	54.0	56.2	55.6	51.6	47.1	44.9	42.6	43.4	39.1
4000	58.5	60.5	60.5	57.4	56.8	56.3	52.5	51.3	50.2	48.5	50.4	52.6	52.0	47.8	43.2	41.2	38.7	39.3	35.2
5000	54.3	56.1	55.7	52.8	52.3	51.2	47.7	46.6	45.7	44.2	46.4	48.6	48.0	43.6	39.0	37.0	34.6	35.0	31.1
6300	49.8	51.4	50.6	47.9	47.4	45.6	42.6	41.7	40.9	39.6	42.1	44.3	43.7	39.2	34.6	32.7	30.2	30.6	26.7
8000	45.3	46.5	45.4	43.0	42.5	40.0	37.6	36.8	36.3	35.3	38.0	40.2	39.9	35.6	30.9	28.9	26.4	26.7	22.8
10000	40.5	41.3	40.0	37.8	37.4	34.3	32.4	31.9	31.5	30.7	33.6	35.8	35.7	31.5	26.9	24.8	22.4	22.7	18.7
12500	35.2	35.7	34.3	32.3	32.0	28.5	26.9	26.7	26.5	25.8	28.8	31.0	31.1	27.4	22.7	20.4	18.2	18.6	14.3
16000	29.3	29.6	28.2	26.4	26.1	22.7	21.2	21.2	21.1	20.7	23.6	25.7	26.2	22.9	18.1	15.8	13.7	14.4	9.7
20000	22.9	22.9	21.6	20.1	19.7	16.8	15.3	15.6	15.4	15.2	18.1	20.2	20.9	18.2	13.3	11.0	9.2	10.2	4.9
25000	16.6	15.8	14.6	13.3	12.9	11.0	9.1	9.7	9.4	9.5	12.3	14.3	15.2	13.2	8.2	6.1	4.6	6.0	.2

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-57G AIRCRAFT
ENG. J65-W5D
GROUND RUNUP

OPERATION:
IDLE, 50% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-016
RUN 01
AIRCRAFT CODE 070
OPERATION CODE 02013
PROFILE VERSION A
31 MAR 76
PAGE G1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	99.9	101.6	102.7	98.0	99.0	99.6	94.7	92.5	90.2	87.0	86.6	88.0	86.9	84.5	79.3	77.1	75.6	77.8	72.4
250	97.6	99.3	100.3	95.7	96.6	97.4	92.3	90.3	87.9	84.8	84.4	85.9	84.8	82.4	77.3	75.1	73.5	75.7	70.3
315	95.1	96.9	98.0	93.4	94.3	95.0	89.9	87.9	85.6	82.5	82.2	83.7	82.7	80.4	75.2	73.0	71.4	73.6	68.1
400	92.6	94.4	95.5	91.0	91.8	92.6	87.4	85.5	83.3	80.2	80.0	81.5	80.6	78.2	73.0	70.8	69.3	71.4	65.9
500	90.0	91.9	93.0	88.5	89.2	90.1	84.8	83.0	80.8	77.7	77.7	79.2	78.4	75.9	70.7	68.6	67.0	69.0	63.6
630	87.2	89.2	90.3	85.9	86.5	87.4	82.1	80.4	78.2	75.2	75.3	76.8	76.1	73.6	68.4	66.2	64.6	66.6	61.2
800	84.3	86.4	87.5	83.1	83.7	84.7	79.3	77.7	75.6	72.6	72.9	74.4	73.8	71.1	66.0	63.8	62.1	64.0	58.7
1000	81.3	83.5	84.6	80.3	80.7	81.7	76.3	74.8	72.8	69.9	70.3	72.0	71.4	68.6	63.5	61.3	59.5	61.3	56.1
1250	78.1	80.4	81.4	77.3	77.6	78.6	73.1	71.7	69.8	67.0	67.7	69.4	68.9	66.0	60.9	58.7	56.7	58.5	53.4
1500	74.8	77.1	78.1	74.1	74.3	75.3	69.7	68.5	66.7	64.0	64.9	66.7	66.3	63.2	58.2	56.0	53.9	55.4	50.5
2000	71.3	73.7	74.5	70.7	70.7	71.7	66.2	65.1	63.3	60.9	62.0	63.9	63.7	60.4	55.4	53.1	50.9	52.2	47.5
2500	67.7	70.1	70.7	67.0	67.0	67.7	62.3	61.4	59.6	57.5	58.9	60.9	60.7	57.2	52.2	49.9	47.6	48.7	44.2
3150	64.0	66.2	66.6	63.2	63.0	63.4	58.2	57.4	55.9	53.8	55.5	57.6	57.4	53.6	48.6	46.4	44.0	44.9	40.7
4000	59.6	61.8	61.8	58.7	58.4	58.2	53.6	52.7	51.4	49.6	51.6	53.7	53.5	49.3	44.5	42.3	39.8	40.5	36.5
5000	55.3	57.1	56.7	53.8	53.5	52.6	48.5	47.7	46.6	45.0	47.3	49.4	49.1	44.8	39.9	37.9	35.4	35.9	32.1
6300	50.5	52.0	51.2	48.6	48.2	46.6	43.2	42.4	41.5	40.1	42.7	44.9	44.4	40.0	35.2	33.3	30.8	31.1	27.4
8000	45.7	46.9	45.7	43.3	42.9	40.5	37.9	37.2	36.6	35.6	38.3	40.5	40.2	36.0	31.2	29.2	26.7	27.0	23.2
10000	40.5	41.3	40.0	37.8	37.4	34.3	32.4	31.9	31.5	30.7	33.6	35.8	35.7	31.6	26.9	24.8	22.4	22.7	18.7
12500	35.2	35.7	34.3	32.3	32.0	28.5	26.9	26.7	26.5	25.8	28.8	31.0	31.1	27.4	22.7	20.4	18.2	18.6	14.3
16000	29.3	29.6	28.2	26.4	26.1	22.7	21.2	21.2	21.1	20.7	23.6	25.7	26.2	22.9	18.1	15.8	13.7	14.4	9.7
20000	22.9	22.9	21.6	20.1	19.7	16.8	15.3	15.6	15.4	15.2	18.1	20.2	20.9	18.2	13.3	11.0	9.2	10.2	4.9
25000	16.0	15.8	14.6	13.3	12.9	11.0	9.1	9.7	9.4	9.5	12.3	14.3	15.2	13.2	8.2	6.1	4.6	6.0	.2

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
B-57G AIRCRAFT
ENG. J65-W5D
GROUND RUNUP

OPERATION:
IDLE, 50% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 6.2
TEST 74-004-016
RUN 01
AIRCRAFT CODE 070
OPERATION CODE 02013
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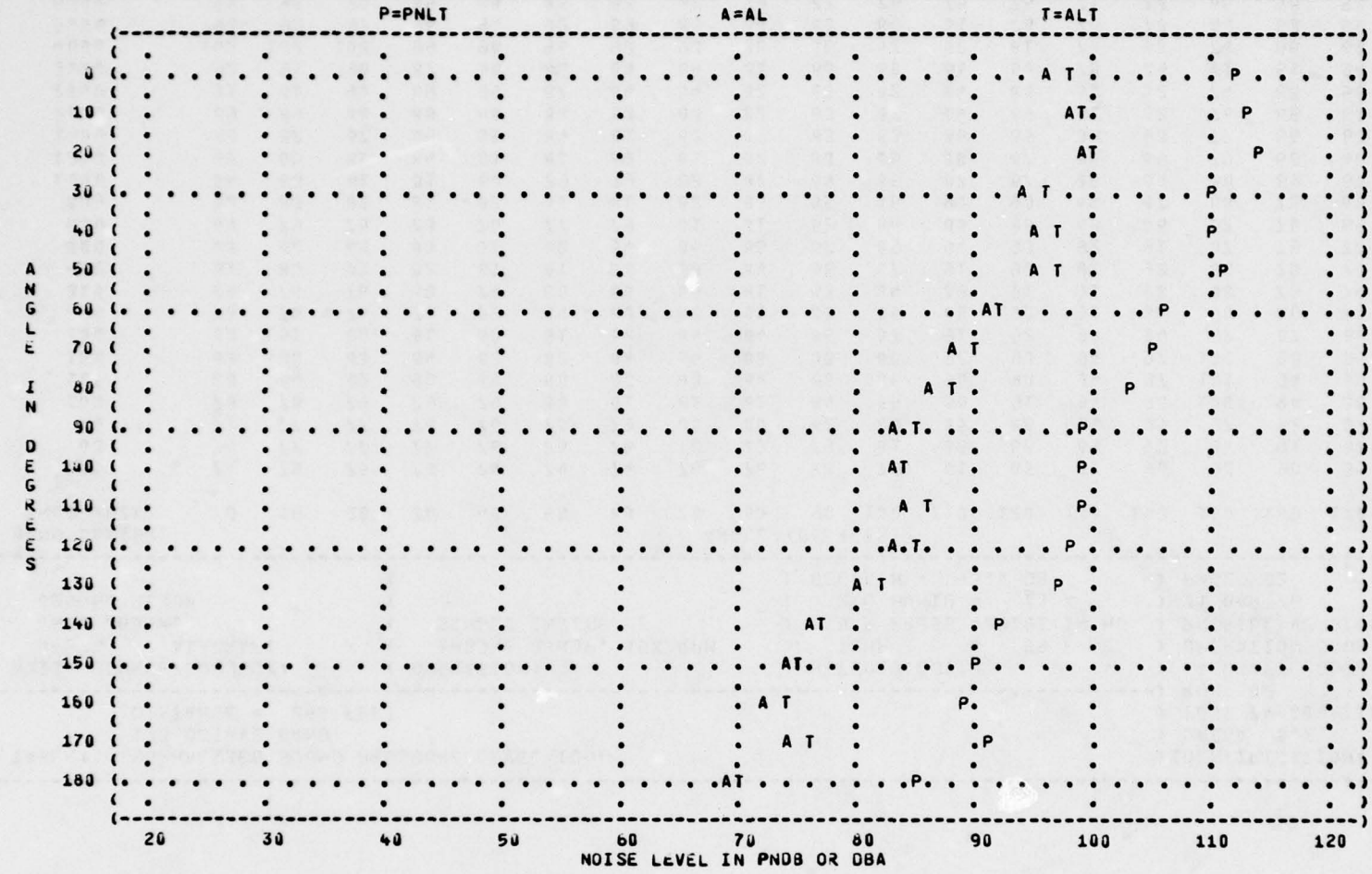


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-016
RUN 02

NOISE SOURCE/SUBJECT:
B-57G AIRCRAFT
ENG. J65-W5D
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

AIRCRAFT CODE 070
OPERATION CODE 02018
PROFILE VERSION A
31 MAR 76
PAGE C2

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	74	75	75	73	74	74	74	76	76	78	79	81	85	87	90	92	90	86	66
63	76	77	77	77	76	76	76	78	79	79	81	83	86	89	92	94	91	87	67
80	77	77	77	78	76	78	79	80	80	82	83	85	88	91	95	97	92	87	67
100	78	78	79	79	79	80	81	81	82	84	85	88	91	94	98	100	94	88	68
125	80	80	80	80	80	80	83	83	84	86	86	90	90	94	97	101	94	89	69
160	82	83	83	84	82	82	84	86	86	88	88	92	93	94	97	102	93	89	69
200	80	81	80	81	80	81	82	84	84	86	87	91	92	94	94	97	87	86	66
250	78	78	78	78	79	80	80	83	81	83	85	89	90	91	91	90	80	78	58
315	79	78	78	80	79	80	80	80	81	83	84	89	91	91	92	88	76	74	54
400	81	80	81	82	81	81	82	83	84	86	87	91	92	92	92	89	75	73	53
500	82	82	83	83	81	82	84	86	86	87	89	94	93	92	91	87	75	73	53
630	80	79	78	78	78	77	79	81	81	82	84	88	88	88	86	82	70	69	49
800	83	83	82	82	82	80	81	82	83	85	86	90	90	89	87	83	72	68	48
1000	84	83	81	81	80	79	79	82	82	84	85	87	87	86	84	80	69	67	47
1250	85	85	85	84	83	81	80	81	82	83	85	88	87	85	84	79	68	66	46
1600	88	87	87	86	85	84	81	82	82	83	83	86	85	83	83	77	66	63	43
2000	89	89	88	88	88	86	83	83	82	83	82	84	85	82	82	76	66	60	40
2500	91	91	90	89	89	87	84	84	82	83	82	84	83	81	82	74	63	58	38
3150	92	91	90	87	88	86	84	84	81	80	80	81	80	78	79	71	61	54	34
4000	102	102	103	99	98	96	93	93	88	86	82	82	81	78	80	73	66	60	40
5000	96	98	97	94	94	92	89	89	86	83	80	81	78	75	78	69	63	57	37
6300	91	90	90	85	88	85	82	82	79	77	76	78	76	71	73	65	58	50	30
8000	93	94	93	90	92	88	86	84	81	78	77	78	75	69	72	66	59	51	31
10000	88	89	89	85	88	84	82	81	77	75	72	74	71	65	68	62	55	47	27
OVERALL	105	105	105	102	102	100	98	98	97	97	98	102	102	103	105	108	101	96	76

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-016
RUN 02
AIRCRAFT CODE 070
OPERATION CODE 02018
PROFILE VERSION A
31 MAR 76
PAGE D2

NOISE SOURCE/SUBJECT:
B-57G AIRCRAFT
ENG. J65-W5D
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	122.4	122.7	122.8	120.0	119.6	117.8	115.2	115.4	112.5	111.9	110.6	113.0	112.4	111.7	112.5	112.3	103.7	99.4	78.3
250	120.0	120.3	120.4	117.7	117.2	115.4	112.9	113.1	110.2	109.6	108.3	110.7	110.2	109.6	110.4	110.2	101.6	97.3	76.0
315	117.5	117.8	117.9	115.2	114.8	112.9	110.4	110.7	107.8	107.3	106.0	108.5	108.0	107.4	108.2	108.1	99.5	95.1	73.7
400	114.9	115.2	115.3	112.6	112.2	110.3	107.9	108.1	105.3	104.8	103.5	106.1	105.7	105.2	106.0	105.9	97.3	92.8	71.2
500	112.2	112.5	112.6	109.9	109.4	107.6	105.2	105.4	102.6	102.2	101.1	103.8	103.4	102.9	103.6	103.5	94.9	90.4	68.6
630	109.3	109.5	109.6	107.0	106.5	104.7	102.3	102.6	99.8	99.4	98.5	101.4	101.0	100.6	101.1	101.0	92.3	87.9	65.8
800	106.1	106.4	106.5	103.9	103.3	101.6	99.2	99.5	96.8	96.5	95.8	98.9	98.5	98.1	98.6	98.3	89.7	85.1	62.8
1000	102.7	102.9	103.0	100.5	99.9	98.2	95.9	96.2	93.6	93.3	92.9	96.2	95.9	95.5	96.0	95.5	86.8	82.2	59.6
1250	98.9	99.2	99.3	96.8	96.2	94.5	92.2	92.6	90.0	89.9	89.8	93.4	93.1	92.8	93.2	92.4	83.5	78.9	56.1
1600	94.8	95.0	95.1	92.7	92.1	90.4	88.2	88.6	86.2	86.3	86.7	90.4	90.1	89.8	90.2	89.1	79.8	75.3	52.8
2000	90.2	90.4	90.5	88.1	87.5	85.9	83.8	84.3	82.0	82.8	83.5	87.3	87.0	86.8	87.0	85.4	75.8	71.3	46.8
2500	85.1	85.2	85.3	83.1	82.4	80.9	78.9	79.4	78.0	79.2	80.1	83.9	83.6	83.1	83.3	81.0	71.3	66.9	41.7
3150	79.3	79.4	79.4	77.3	76.8	75.3	73.7	74.4	73.8	75.1	76.0	80.0	79.6	79.1	79.2	76.4	66.3	62.2	35.9
4000	73.6	73.4	72.8	71.9	71.6	70.2	68.6	69.7	69.2	70.6	71.5	75.6	75.2	74.6	74.6	71.6	60.4	57.8	27.5
5000	67.9	67.7	67.1	66.3	66.0	64.7	63.1	64.5	64.2	65.7	66.7	70.8	70.4	69.8	69.8	66.7	54.9	51.4	17.5
6300	61.9	61.5	61.0	60.4	59.8	58.5	57.6	59.2	58.9	60.4	61.6	65.8	65.4	64.7	64.6	61.5	48.9	45.3	7.4
8000	55.9	55.1	54.9	54.4	53.6	52.3	52.8	54.6	54.4	56.2	57.4	61.8	61.4	60.8	60.7	57.6	44.3	40.5	
10000	49.0	48.3	48.2	48.0	47.1	46.6	47.6	49.5	49.5	51.4	52.8	57.4	57.0	56.5	56.3	53.4	39.0	35.5	
12500	41.8	41.5	41.6	41.5	40.2	40.1	41.8	44.0	44.0	46.0	47.7	52.6	52.3	51.8	51.6	48.7	33.6	28.4	
16000	34.5	34.0	34.3	34.6	32.7	32.8	34.4	37.3	37.0	39.8	41.6	47.3	46.7	46.4	46.3	43.2	25.7	19.8	
20000	25.5	25.2	25.8	26.0	23.7	24.3	26.9	29.3	29.3	32.3	34.1	40.6	40.2	39.9	40.0	37.1	17.1	11.2	
25000	10.8	11.7	12.6	14.0	9.9	11.2	15.9	19.3	19.1	22.9	25.7	32.2	32.4	32.2	32.7	29.1	7.1	2.6	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-57G AIRCRAFT
ENG. J65-W5D
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-016
RUN 02
AIRCRAFT CODE 070
OPERATION CODE 02018
PROFILE VERSION A
31 MAR 76
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	125.0	125.4	125.8	122.9	121.9	120.1	117.3	117.5	114.1	113.4	110.6	114.3	112.4	111.7	112.5	113.3	104.9	100.8	79.7
250	122.6	123.0	123.4	120.6	119.5	117.8	115.0	115.2	111.7	111.1	108.3	112.1	110.2	109.5	110.4	111.2	102.9	98.7	77.4
315	120.1	120.5	120.9	118.1	117.1	115.3	112.5	112.8	109.3	108.7	106.0	109.8	108.0	107.4	108.2	109.1	100.7	96.5	75.1
400	117.5	117.9	118.3	115.5	114.5	112.7	110.0	110.2	106.8	106.2	103.5	107.5	105.7	105.2	106.0	106.9	98.5	94.2	72.6
500	114.7	115.1	115.6	112.8	111.7	110.0	107.2	107.5	104.2	103.6	101.1	105.2	103.4	102.9	103.6	104.5	96.1	91.8	70.0
630	111.8	112.2	112.6	109.9	108.8	107.1	104.4	104.7	101.3	100.8	98.5	102.7	101.0	100.6	101.1	102.0	93.5	89.3	67.2
800	108.7	109.0	109.5	106.7	105.6	104.0	101.3	101.6	98.3	97.9	95.8	100.2	98.5	98.1	98.6	99.4	90.9	86.5	64.2
1000	105.2	105.6	106.0	103.4	102.2	100.6	97.9	98.3	95.1	94.7	92.9	97.6	95.9	95.5	96.0	96.6	88.0	83.5	61.0
1250	101.5	101.8	102.3	99.6	98.5	96.9	94.3	94.7	91.6	91.3	89.8	94.8	93.1	92.8	93.2	93.5	84.7	80.2	57.4
1600	97.4	97.7	98.1	95.6	94.4	92.8	90.3	90.7	87.7	87.8	86.7	91.8	90.1	89.8	90.2	90.2	81.1	76.6	53.4
2000	92.8	93.1	93.5	91.0	89.8	88.3	85.9	86.4	83.5	84.2	83.5	88.7	87.0	86.8	87.0	86.4	77.0	72.7	48.2
2500	87.6	87.9	88.3	86.0	84.7	83.2	80.9	81.5	79.6	80.6	80.1	85.3	83.6	83.1	83.3	82.1	72.5	68.3	43.1
3150	81.8	82.0	82.4	80.2	79.1	77.7	75.8	76.5	75.4	76.6	76.0	81.3	79.6	79.1	79.2	77.4	67.5	63.6	37.3
4000	75.6	75.5	75.2	74.2	73.4	72.1	70.2	71.3	70.4	71.7	71.5	76.7	75.2	74.6	74.6	72.4	61.4	58.1	28.6
5000	69.4	69.3	68.9	68.1	67.4	66.1	64.3	65.8	65.1	66.5	66.7	71.6	70.4	69.8	69.8	67.3	55.6	52.3	18.3
6300	62.9	62.6	62.2	61.6	60.8	59.5	58.4	60.0	59.5	61.0	61.6	66.3	65.4	64.7	64.6	61.9	49.4	45.9	7.9
8000	56.4	55.6	55.5	55.0	54.0	52.8	53.2	55.0	54.7	56.5	57.4	62.1	61.4	60.8	60.7	57.8	44.5	40.8	
10000	49.6	48.3	48.2	48.0	47.1	46.6	47.6	49.5	49.5	51.4	52.8	57.4	57.0	56.5	56.3	53.4	39.0	35.5	
12500	41.8	41.5	41.6	41.5	40.2	40.1	41.8	44.0	44.0	46.0	47.7	52.6	52.3	51.8	51.6	48.7	33.6	28.4	
16000	34.5	34.0	34.3	34.6	32.7	32.8	34.4	37.3	37.0	39.8	41.6	47.3	46.7	46.4	46.3	43.2	25.7	19.8	
20000	25.5	25.2	25.8	26.0	23.7	24.3	26.9	29.3	29.3	32.3	34.1	40.6	40.2	39.9	40.0	37.1	17.1	11.2	
25000	10.8	11.7	12.6	14.0	9.9	11.2	15.9	19.3	19.1	22.9	25.7	32.2	32.4	32.2	32.7	29.1	7.1	2.6	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-57G AIRCRAFT
ENG. J65-W5D
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-016
RUN 02
AIRCRAFT CODE 070
OPERATION CODE 02018
PROFILE VERSION A
31 MAR 76
PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	107.5	108.0	108.0	104.9	104.7	102.6	99.7	99.7	97.1	97.0	97.1	100.1	99.6	98.8	98.6	96.8	87.5	83.9	63.9
250	105.1	105.5	105.6	102.5	102.3	100.2	97.3	97.4	94.8	94.8	94.9	98.0	97.5	96.7	96.5	94.8	85.5	81.9	61.9
315	102.6	103.0	103.1	100.0	99.7	97.7	94.8	94.9	92.4	92.6	92.7	95.9	95.4	94.7	94.4	92.7	83.4	79.8	59.8
400	100.0	100.4	100.4	97.4	97.1	95.0	92.2	92.4	90.0	90.2	90.5	93.7	93.2	92.5	92.3	90.6	81.3	77.7	57.7
500	97.2	97.6	97.7	94.7	94.3	92.3	89.5	89.8	87.5	87.9	88.2	91.5	91.0	90.4	90.1	88.3	79.0	75.4	55.4
630	94.3	94.6	94.7	91.8	91.4	89.4	86.7	87.0	85.0	85.5	85.9	89.2	88.8	88.1	87.8	86.0	76.6	73.0	53.0
800	91.2	91.5	91.5	88.7	88.3	86.4	83.7	84.1	82.3	83.0	83.6	86.9	86.5	85.8	85.5	83.5	74.1	70.5	50.5
1000	87.6	88.1	88.1	85.5	85.0	83.1	80.6	81.1	79.6	80.4	81.1	84.5	84.1	83.5	83.1	81.0	71.4	67.9	47.9
1250	84.2	84.4	84.4	82.0	81.4	79.6	77.4	78.0	76.7	77.7	78.6	82.1	81.7	81.0	80.5	78.2	68.5	65.0	45.0
1600	80.4	80.5	80.4	78.2	77.7	76.0	73.9	74.7	73.8	75.0	76.0	79.5	79.1	78.5	77.9	75.4	65.4	62.1	42.1
2000	76.4	76.3	76.1	74.3	73.8	72.1	70.5	71.4	70.9	72.2	73.3	76.9	76.5	75.9	75.2	72.4	62.1	58.9	38.9
2500	72.1	71.9	71.6	70.2	69.7	68.1	66.8	68.0	67.7	69.1	70.3	74.0	73.6	72.9	72.1	69.0	58.4	55.4	35.4
3150	67.8	67.4	67.0	66.1	65.5	64.0	63.0	64.4	64.3	65.8	67.0	70.7	70.3	69.5	68.7	65.3	54.4	51.6	31.6
4000	63.4	62.9	62.4	61.8	61.1	59.8	59.1	60.0	60.6	62.2	63.4	67.1	66.7	65.9	64.9	61.2	50.1	47.5	27.5
5000	58.8	58.2	57.7	57.2	56.6	55.3	54.7	56.4	56.5	58.1	59.4	63.1	62.6	61.8	60.7	57.0	45.8	43.2	23.2
6300	53.9	53.3	52.8	52.4	51.7	50.5	50.2	52.0	52.1	53.7	55.1	58.7	58.2	57.4	56.3	52.5	41.4	38.8	18.8
8000	49.0	48.4	48.0	47.7	47.0	45.8	45.9	47.9	48.0	49.6	51.1	54.9	54.4	53.6	52.6	49.0	38.0	35.3	15.3
10000	43.9	43.3	42.9	42.7	42.0	41.0	41.5	43.5	43.6	45.3	46.7	50.7	50.2	49.3	48.5	45.2	34.4	31.6	11.6
12500	38.4	37.9	37.5	37.5	36.7	35.9	36.8	38.7	38.9	40.5	42.0	46.1	45.7	45.1	44.2	41.3	30.8	27.8	7.8
16000	32.6	32.1	31.9	31.9	31.1	30.5	31.7	33.6	33.7	35.4	36.9	41.1	40.8	40.3	39.5	37.2	27.3	23.9	3.9
20000	26.3	26.0	25.9	26.0	25.1	24.8	26.2	28.1	28.2	29.8	31.3	35.7	35.4	35.0	34.5	32.9	23.7	20.0	.0
25000	19.7	19.4	19.5	19.8	18.8	18.7	20.2	22.0	22.1	23.8	25.2	29.7	29.4	29.3	29.2	28.7	20.3	16.2	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-57G AIRCRAFT
ENG. J65-W5D
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-016
RUN 02
AIRCRAFT CODE 070
OPERATION CODE 02018
PROFILE VERSION A
31 MAR 76
PAGE G2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	110.1	110.6	111.0	107.8	107.0	104.9	101.8	101.8	98.6	98.4	97.1	101.5	93.6	98.8	98.6	97.9	88.7	85.3	65.3
250	107.7	108.2	108.6	105.4	104.6	102.5	99.4	99.5	96.3	96.2	94.9	99.4	97.5	96.7	96.5	95.8	86.7	83.2	63.2
315	105.2	105.7	106.1	102.9	102.0	100.0	96.9	97.0	94.0	94.0	92.7	97.2	95.4	94.7	94.4	93.8	84.6	81.2	61.2
400	102.5	103.0	103.4	100.3	99.4	97.4	94.3	94.5	91.6	91.7	90.5	95.0	93.2	92.5	92.3	91.6	82.5	79.1	59.1
500	99.8	100.3	100.7	97.6	96.6	94.7	91.6	91.9	89.1	89.3	88.2	92.8	91.0	90.4	90.1	89.4	80.2	76.8	56.8
630	96.6	97.3	97.7	94.7	93.7	91.8	88.8	89.1	86.5	86.9	85.9	90.6	88.8	88.1	87.8	87.0	77.8	74.4	54.4
800	93.7	94.1	94.5	91.6	90.6	88.7	85.8	86.2	83.6	84.4	83.6	88.2	86.5	85.8	85.5	84.6	75.3	71.9	51.9
1000	90.4	90.7	91.1	88.3	87.3	85.5	82.7	83.2	81.1	81.8	81.1	85.9	84.1	83.5	83.1	82.0	72.6	69.3	49.3
1250	86.8	87.1	87.4	84.8	83.7	82.0	79.4	80.1	78.3	79.2	78.6	83.4	81.7	81.0	80.5	79.3	69.7	66.4	46.4
1500	83.0	83.1	83.4	81.1	80.0	78.3	76.0	75.8	75.4	76.4	76.0	80.9	79.1	78.5	77.9	76.4	66.6	63.4	43.4
2000	78.9	79.0	79.1	77.2	76.1	74.5	72.5	73.5	72.4	73.6	73.3	78.2	76.5	75.9	75.2	73.5	63.3	60.3	40.3
2500	74.7	74.6	74.6	73.1	72.0	70.5	68.9	70.1	69.2	70.6	70.3	75.3	73.6	72.9	72.1	70.1	59.6	56.8	36.8
3150	70.3	70.1	70.0	68.9	67.8	66.4	65.1	66.5	65.8	67.2	67.0	72.1	70.3	69.6	68.7	66.3	55.6	53.0	33.0
4000	65.4	65.0	64.8	64.1	63.0	61.7	60.7	62.3	61.8	63.3	63.4	68.2	66.7	65.9	64.9	62.1	51.1	48.6	28.6
5000	60.3	59.8	59.5	59.0	58.0	56.7	56.0	57.7	57.4	58.9	59.4	63.9	62.6	61.8	60.7	57.6	46.6	44.8	24.0
6300	54.9	54.3	54.0	53.6	52.6	51.4	51.0	52.8	52.7	54.3	55.1	59.3	58.2	57.4	56.3	52.9	41.8	39.3	19.3
8000	49.5	48.9	48.6	48.3	47.4	46.3	46.4	48.3	48.3	49.9	51.1	55.1	54.4	53.6	52.6	49.2	38.2	35.6	15.6
10000	43.9	43.3	42.9	42.7	42.0	41.0	41.5	43.5	43.6	45.3	46.7	50.7	50.2	49.5	48.5	45.2	34.4	31.6	11.6
12500	38.4	37.9	37.5	37.5	36.7	35.9	36.8	38.7	38.9	40.5	42.0	46.1	45.7	45.1	44.2	41.3	30.8	27.8	7.8
16000	32.6	32.1	31.9	31.9	31.1	30.5	31.7	33.6	33.7	35.4	36.9	41.1	40.8	40.3	39.5	37.2	27.3	23.9	3.9
20000	26.3	26.0	25.9	26.0	25.1	24.8	26.2	28.1	28.2	29.8	31.3	35.7	35.4	35.0	34.5	32.9	23.7	20.0	.0
25000	19.7	19.4	19.3	19.8	18.8	18.7	20.2	22.0	22.1	23.8	25.2	29.7	29.4	29.3	29.2	28.7	20.3	16.2	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

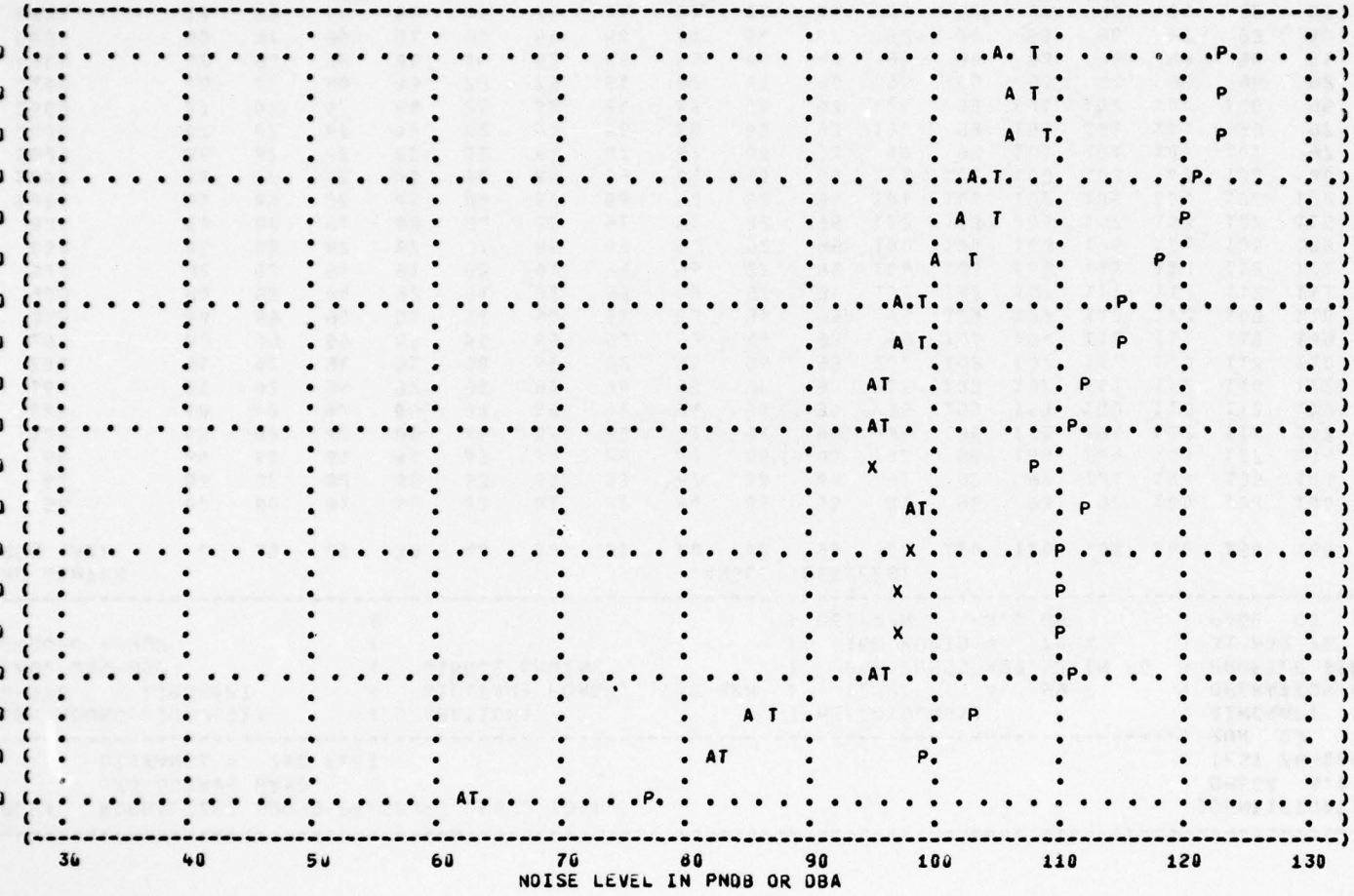
NOISE SOURCE/SUBJECT:
B-57G AIRCRAFT
ENG. J65-W5D
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 85% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-016
RUN 02
AIRCRAFT CODE 070
OPERATION CODE 02018
PROFILE VERSION A
31 MAR 76
PAGE J2

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-016
RUN 03
AIRCRAFT CODE 070
OPERATION CODE 02004
PROFILE VERSION A
31 MAR 76
PAGE C3

NOISE SOURCE/SUBJECT:
B-57G AIRCRAFT
ENG. J65-W5D
GROUND RUNUP

OPERATION:
MILITARY POWER, 101% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	80	80	81	80	80	81	82	84	85	86	89	90	93	97	100	103	100	93	73
63	83	82	82	83	83	83	85	87	88	88	91	92	97	101	104	105	103	94	74
80	84	83	84	84	83	84	86	89	89	90	92	95	100	104	108	107	104	96	76
100	85	85	87	85	86	86	90	91	92	94	96	98	101	108	112	112	107	96	76
125	88	89	90	89	90	89	91	94	93	95	98	100	103	109	113	113	109	96	76
160	91	93	94	92	91	91	94	95	97	98	102	103	107	111	112	116	112	98	78
200	91	92	91	91	90	89	92	95	95	96	102	102	107	112	110	113	110	94	74
250	89	89	89	88	88	89	90	93	94	93	99	100	104	112	111	110	109	93	73
315	88	89	90	91	90	90	91	93	93	95	99	100	105	110	112	109	110	93	73
400	90	92	94	92	91	91	93	95	97	99	102	103	107	112	112	112	111	94	74
500	92	92	94	91	90	91	94	95	97	99	104	106	109	111	113	112	111	92	72
630	86	86	87	87	87	86	89	90	92	95	100	100	103	106	106	105	105	86	66
800	88	88	91	88	88	88	91	91	92	96	102	103	105	107	108	107	106	86	66
1000	85	85	87	85	84	85	88	90	90	94	101	100	102	105	104	103	102	81	61
1250	86	87	87	85	84	85	89	89	90	95	101	101	102	103	103	102	100	79	59
1600	86	87	87	85	82	84	87	87	88	93	99	99	101	101	101	101	97	74	54
2000	87	87	87	84	82	83	86	86	88	93	100	99	101	101	101	99	97	72	52
2500	87	87	87	84	81	82	84	85	88	93	100	99	101	102	102	100	96	70	50
3150	86	87	86	83	79	79	81	82	85	90	96	96	98	98	99	96	92	67	47
4000	92	93	92	88	86	82	85	83	85	90	96	96	98	98	99	96	91	66	46
5000	96	97	95	91	90	84	88	84	84	87	92	94	95	96	97	93	88	63	43
6300	88	90	88	84	85	79	84	81	81	85	89	92	93	94	94	92	85	60	40
8000	85	86	84	81	81	75	80	78	79	82	87	90	92	93	92	90	83	57	37
10000	85	85	84	80	79	74	78	75	76	77	84	85	88	89	89	87	79	52	32
OVERALL	103	103	104	102	101	101	103	105	106	108	113	114	117	121	122	122	120	105	85

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

AD-A053 700 AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB OHIO F/G 1/2
COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS. VO--ETC(U)
NOV 77 J D SPEAKMAN, R G POWELL, R A LEE
UNCLASSIFIED AMRL-TR-73-110-VOL-2 NL

4 OF 8
AD A053700

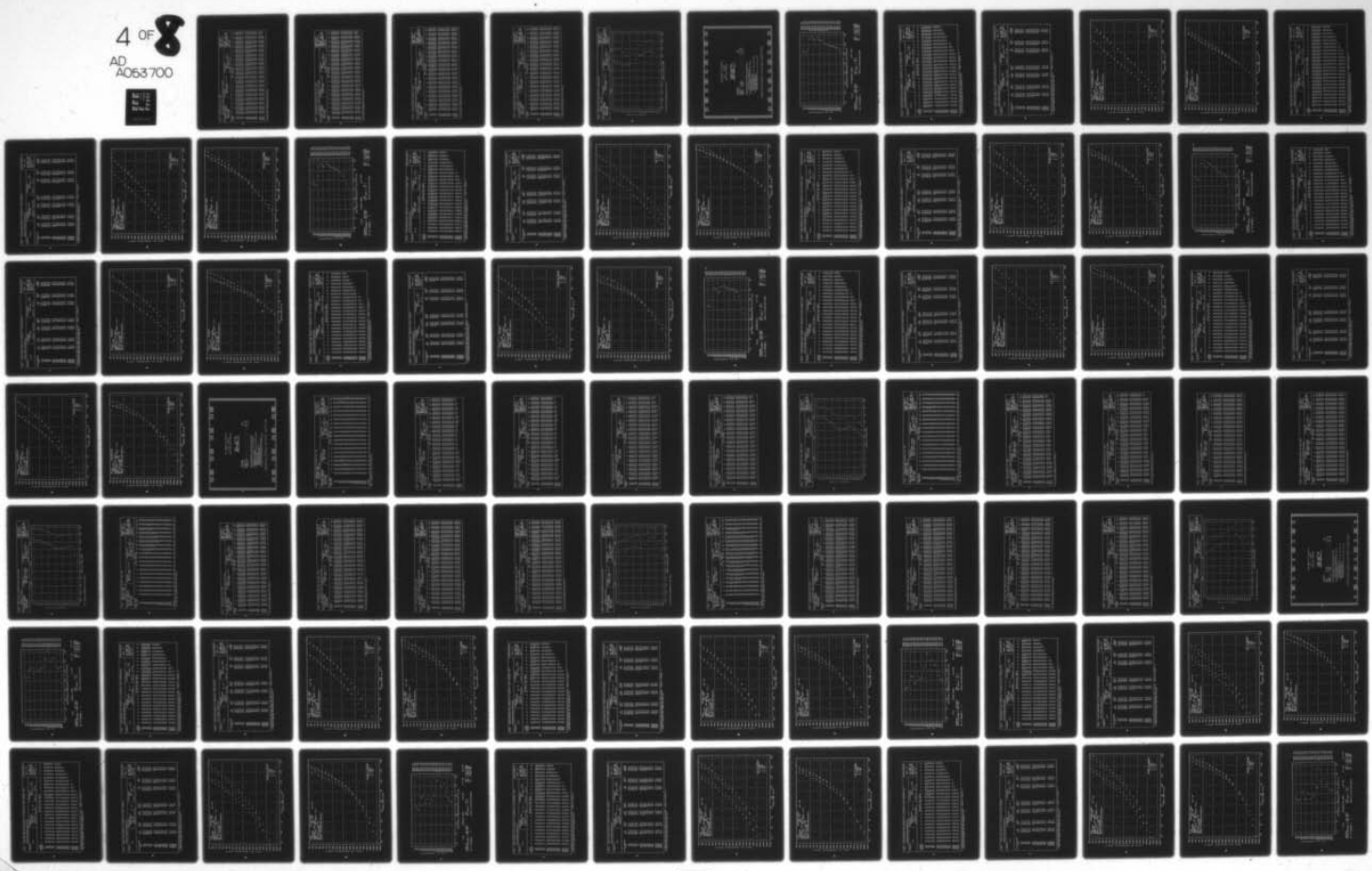


TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-016
RUN 03
AIRCRAFT CODE 070
OPERATION CODE 02004
PROFILE VERSION A
31 MAR 76
PAGE D3

NOISE SOURCE/SUBJECT:
B-57G AIRCRAFT
ENG. J65-W5D
GROUND RUNUP

OPERATION:
MILITARY POWER, 101% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	119.1	119.6	119.0	115.8	114.9	112.4	115.4	114.8	116.6	120.3	125.9	126.3	128.7	130.8	131.5	130.7	128.6	110.6	90.2
250	116.8	117.2	116.0	113.5	112.5	110.1	113.1	112.7	114.4	118.1	123.7	124.0	126.5	128.7	129.3	128.6	126.5	108.5	88.0
315	114.3	114.7	114.2	111.1	110.1	107.7	110.7	110.5	112.2	115.8	121.4	121.8	124.3	126.5	127.2	126.5	124.4	106.4	85.8
400	111.7	112.2	111.6	108.5	107.6	105.2	108.3	108.2	109.9	113.5	119.1	119.5	122.0	124.3	125.0	124.3	122.2	104.2	83.6
500	109.0	109.5	109.0	105.9	104.9	102.7	105.7	105.9	107.4	111.1	116.7	117.0	119.6	122.0	122.7	122.0	120.0	102.0	81.3
630	106.1	106.6	106.1	103.1	102.1	100.0	102.9	103.5	104.9	108.5	114.2	114.5	117.0	119.5	120.3	119.6	117.7	99.7	78.9
800	103.0	103.5	103.1	100.1	99.1	97.5	100.1	101.0	102.4	105.9	111.5	111.8	114.4	117.2	117.9	117.2	115.3	97.3	76.4
1000	99.7	100.1	99.8	96.8	95.8	94.8	97.4	98.3	99.8	103.1	108.7	109.0	111.8	114.5	115.3	114.7	112.8	94.8	73.9
1250	96.0	96.4	96.2	93.3	92.2	92.0	94.5	95.5	97.0	100.1	105.7	106.0	109.0	111.9	112.6	112.0	110.2	92.2	71.2
1600	92.0	92.4	92.2	90.2	89.1	89.0	91.5	92.5	94.0	96.9	102.4	103.0	106.1	109.0	109.7	109.1	107.4	89.3	68.3
2000	87.7	88.0	88.9	86.9	85.9	85.8	88.3	89.4	90.9	93.7	99.0	99.9	103.0	106.0	106.7	106.1	104.5	86.3	65.2
2500	84.0	84.3	85.2	83.0	81.9	82.3	84.8	86.0	87.5	90.3	95.6	96.5	99.7	102.2	103.3	102.7	101.0	82.4	61.1
3150	79.8	80.1	81.1	78.9	77.7	78.3	80.8	82.0	83.5	86.3	91.7	92.6	95.7	98.1	99.3	98.7	97.1	78.2	56.6
4000	75.1	75.4	76.5	74.3	73.1	73.8	76.3	77.6	79.1	81.9	87.3	88.2	91.3	93.7	94.9	94.3	92.7	73.8	51.8
5000	70.1	70.4	71.6	69.4	68.2	68.9	71.5	72.8	74.3	77.2	82.6	83.5	86.6	89.0	90.2	89.6	88.1	69.0	46.5
6300	64.9	65.1	66.4	64.2	63.0	63.8	66.4	67.8	69.3	72.2	77.6	78.5	81.7	84.1	85.3	84.7	83.2	64.0	40.2
8000	60.6	60.8	62.2	60.1	58.9	59.8	62.4	63.9	65.4	68.1	73.5	74.5	77.8	80.3	81.5	81.0	79.6	60.3	35.1
10000	56.0	56.3	57.8	55.6	54.4	55.4	58.0	59.6	61.0	63.8	69.2	70.3	73.6	76.2	77.5	77.1	75.7	56.3	30.2
12500	51.1	51.3	52.9	50.8	49.6	50.5	53.3	54.9	56.3	59.0	64.5	65.6	69.1	71.8	73.2	72.8	71.4	51.8	24.2
16000	45.5	45.9	47.6	45.2	44.0	45.0	47.9	49.6	51.2	53.8	59.2	60.5	64.1	67.0	68.5	68.2	66.7	46.8	14.9
20000	38.9	39.1	41.1	38.6	37.4	38.4	41.2	43.5	45.3	47.9	53.5	54.8	58.6	61.7	63.3	63.0	61.4	40.6	5.7
25000	30.3	31.0	33.1	30.1	28.8	29.9	33.8	36.0	37.8	40.9	46.8	48.3	52.4	55.8	57.4	57.2	55.5	33.3	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-804-016
RUN 03
AIRCRAFT CODE 070
OPERATION CODE 02004
PROFILE VERSION A
31 MAR 76
PAGE E3

NOISE SOURCE/SUBJECT:
8-376 AIRCRAFT
ENG. J65-W5D
GROUND RUNUP

OPERATION:
MILITARY POWER, 101% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	121.2	121.4	120.9	117.4	116.5	113.6	116.7	114.8	116.6	120.3	126.9	127.6	130.1	130.8	132.8	132.1	128.6	110.6	90.2
250	118.9	119.0	118.6	115.1	114.2	111.3	114.4	112.7	114.4	118.1	124.7	125.4	127.9	128.7	130.6	130.0	126.5	108.5	88.0
315	116.4	116.6	116.1	112.7	111.8	108.9	112.0	110.5	112.2	115.8	122.5	123.2	125.6	126.5	128.5	127.8	124.4	106.4	85.8
400	113.8	114.0	113.6	110.2	109.2	106.5	109.5	108.2	109.9	113.5	120.1	120.8	123.3	124.3	126.2	125.6	122.2	104.2	83.6
500	111.1	111.3	110.9	107.5	106.6	103.9	106.9	105.9	107.4	111.1	117.7	118.4	120.9	122.0	124.0	123.4	120.0	102.0	81.3
630	108.2	108.4	108.0	104.7	103.8	101.3	104.2	103.5	104.9	108.5	115.2	115.9	118.4	119.6	121.6	121.0	117.7	99.7	78.9
800	105.1	105.3	105.0	101.7	100.7	98.7	101.3	101.0	102.4	105.9	112.5	113.2	115.7	117.2	119.1	118.6	115.3	97.3	76.4
1000	101.8	101.9	101.7	98.4	97.5	96.1	98.6	98.3	99.8	103.1	109.7	110.4	113.1	114.6	116.6	116.0	112.8	94.8	73.9
1250	98.1	98.2	98.1	94.9	93.9	93.2	95.7	95.5	97.0	100.1	106.7	107.4	110.3	111.9	113.9	113.3	110.2	92.2	71.2
1600	94.1	94.2	94.1	91.8	90.8	90.2	92.7	92.5	94.0	96.9	103.5	104.4	107.4	109.0	111.0	110.5	107.4	89.3	68.3
2000	89.8	89.8	90.8	88.6	87.5	87.1	89.5	89.4	90.9	93.7	100.1	101.3	104.4	106.0	107.9	107.4	104.5	86.3	65.2
2500	86.1	86.1	87.2	84.7	83.6	83.5	86.0	86.0	87.5	90.3	96.7	97.9	101.0	102.2	104.6	104.1	101.0	82.4	61.1
3150	81.9	81.9	83.0	80.5	79.3	79.5	82.0	82.0	83.5	86.3	92.7	93.9	97.0	98.1	100.6	100.1	97.1	78.2	56.6
4000	76.8	76.9	78.1	75.0	74.5	74.8	77.3	77.6	79.1	81.9	88.1	89.3	92.4	93.7	95.9	95.4	92.7	73.8	51.8
5000	71.4	71.5	72.7	70.4	69.2	69.7	72.2	72.8	74.3	77.2	83.2	84.3	87.4	89.0	90.9	90.4	88.1	69.0	46.5
6300	65.7	65.9	67.2	64.9	63.7	64.3	66.9	67.8	69.3	72.2	78.0	79.1	82.2	84.1	85.8	85.3	83.2	64.0	40.2
8000	61.0	61.2	62.6	60.4	59.2	60.1	62.6	63.9	65.4	68.1	73.7	74.8	78.0	80.3	81.8	81.3	79.6	60.3	35.1
10000	56.0	56.3	57.8	55.6	54.4	55.4	58.0	59.6	61.0	63.8	69.2	70.3	73.6	76.2	77.5	77.1	75.7	56.3	30.2
12500	51.1	51.3	52.9	50.8	49.6	50.5	53.3	54.9	56.3	59.0	64.5	65.6	69.1	71.8	73.2	72.8	71.4	51.8	24.2
16000	45.5	45.9	47.6	45.2	44.0	45.0	47.9	49.6	51.2	53.8	59.2	60.5	64.1	67.0	68.5	68.2	66.7	46.8	14.9
20000	38.9	39.1	41.1	38.6	37.4	38.4	41.2	43.5	45.3	47.9	53.5	54.8	58.6	61.7	63.3	63.0	61.4	40.6	5.7
25000	30.3	31.0	33.1	30.1	28.8	29.9	33.8	36.0	37.8	40.9	46.8	48.3	52.4	55.8	57.4	57.2	55.5	33.3	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-57G AIRCRAFT
ENG. J65-W5D
GROUND RUNUP

OPERATION:
MILITARY POWER, 101% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-016
RUN 03
AIRCRAFT CODE 070
OPERATION CODE 02004
PROFILE VERSION A
31 MAR 76
PAGE F3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	103.6	104.1	103.7	100.7	99.6	98.7	101.5	102.0	103.4	106.9	112.7	113.0	115.5	117.8	118.2	117.4	116.2	97.8	77.8
250	101.2	101.7	101.4	98.4	97.3	96.5	99.3	99.9	101.3	104.8	110.6	110.9	113.4	115.7	116.1	115.4	114.1	95.8	75.8
315	98.8	99.3	99.0	96.1	95.0	94.4	97.1	97.7	99.2	102.6	108.4	108.7	111.2	113.6	114.0	113.3	112.1	93.7	73.7
400	96.3	96.8	96.6	93.8	92.7	92.2	94.9	95.6	97.0	100.4	106.2	106.5	109.0	111.4	111.9	111.2	110.0	91.6	71.6
500	93.7	94.2	94.1	91.4	90.3	89.9	92.6	93.4	94.8	98.2	104.0	104.3	106.8	109.2	109.7	109.0	107.8	89.5	69.5
630	91.0	91.4	91.5	88.9	87.8	87.6	90.3	91.1	92.5	95.9	101.7	102.0	104.5	107.0	107.5	106.7	105.6	87.3	67.3
800	88.2	88.6	88.3	86.4	85.3	85.3	87.9	88.8	90.2	93.5	99.3	99.6	102.2	104.7	105.2	104.5	103.4	85.0	65.0
1000	85.3	85.7	86.2	83.8	82.7	82.9	85.5	86.4	87.8	91.1	96.9	97.2	99.8	102.3	102.9	102.1	101.1	82.7	62.7
1250	82.3	82.7	83.4	81.1	80.0	80.4	83.0	84.0	85.4	88.6	94.4	94.7	97.4	99.8	100.4	99.7	98.7	80.2	60.2
1600	79.2	79.6	80.6	78.4	77.3	77.8	80.4	81.4	82.8	86.0	91.7	92.1	94.8	97.3	97.9	97.2	96.2	77.7	57.7
2000	76.2	76.6	77.7	75.6	74.6	75.1	77.7	78.8	80.2	83.4	89.0	89.4	92.1	94.7	95.3	94.6	93.7	75.1	55.1
2500	72.9	73.3	74.6	72.5	71.5	72.1	74.7	75.8	77.2	80.4	86.1	86.5	89.2	91.6	92.3	91.6	90.7	72.0	52.0
3150	69.4	69.7	71.2	69.1	68.2	68.8	71.4	72.5	73.9	77.0	82.8	83.2	85.9	88.2	88.9	88.2	87.3	68.4	48.4
4000	65.7	65.9	67.5	65.4	64.5	65.1	67.8	68.9	70.2	73.4	79.2	79.6	82.2	84.5	85.2	84.4	83.6	64.6	44.6
5000	61.5	61.7	63.3	61.3	60.3	61.0	63.7	64.8	66.0	69.3	75.2	75.5	78.1	80.3	81.0	80.2	79.4	60.3	40.3
6300	57.0	57.2	58.9	56.8	56.0	56.6	59.4	60.4	61.7	64.9	70.8	71.2	73.7	75.9	76.6	75.8	75.0	55.8	35.8
8000	53.1	53.3	55.0	53.0	52.1	52.8	55.5	56.6	57.9	60.9	66.8	67.2	69.9	72.2	72.9	72.2	71.4	52.3	32.3
10000	48.9	49.1	50.9	48.9	48.0	48.6	51.2	52.4	53.8	56.7	62.4	62.9	65.8	68.1	69.0	68.3	67.5	48.6	28.6
12500	44.4	44.6	46.4	44.4	43.6	44.1	46.7	47.9	49.3	52.1	57.6	58.3	61.3	63.7	64.7	64.0	63.3	44.5	24.5
16000	39.5	39.7	41.5	39.5	38.7	39.2	41.7	43.0	44.5	47.1	52.4	53.2	56.4	59.0	60.0	59.4	58.6	40.1	20.1
20000	34.1	34.3	36.1	34.2	33.3	33.9	36.2	37.7	39.2	41.6	46.7	47.7	51.0	53.7	54.8	54.3	53.4	35.2	15.2
25000	28.2	28.5	30.2	28.4	27.5	28.1	30.3	31.9	33.4	35.6	40.5	41.6	45.1	48.1	49.2	48.8	47.8	30.0	10.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
B-57G AIRCRAFT
ENG. J65-W5D
GROUND RUNUP

OPERATION:
MILITARY POWER, 101% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-016
RUN 03
AIRCRAFT CODE 070
OPERATION CODE 02004
PROFILE VERSION A
31 MAR 76
PAGE G3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	105.7	105.9	105.6	102.3	101.2	99.9	102.7	102.0	103.4	106.9	113.8	114.4	116.8	117.8	119.5	118.8	116.2	97.8	77.8
250	103.3	103.5	103.3	100.1	99.0	97.8	100.5	99.9	101.3	104.8	111.6	112.3	114.7	115.7	117.4	116.7	114.1	95.8	75.8
315	100.9	101.1	100.9	97.8	96.7	95.6	98.3	97.7	99.2	102.6	109.5	110.1	112.6	113.5	115.3	114.7	112.1	93.7	73.7
400	98.4	98.6	98.5	95.4	94.3	93.4	96.1	95.6	97.0	100.4	107.3	107.9	110.4	111.4	113.2	112.5	110.0	91.6	71.6
500	95.8	96.0	96.0	93.0	91.9	91.2	93.8	93.4	94.8	98.2	105.6	105.6	108.2	109.2	111.0	110.3	107.8	89.5	69.5
630	93.1	93.3	93.4	90.6	89.5	88.9	91.5	91.1	92.5	95.9	102.7	103.3	105.9	107.0	108.8	108.1	105.6	87.3	67.3
800	90.3	90.4	90.8	88.0	86.9	86.5	89.1	88.8	90.2	93.5	100.4	101.0	103.6	104.7	106.5	105.8	103.4	85.0	65.0
1000	87.4	87.5	88.1	85.4	84.4	84.1	86.7	86.4	87.8	91.1	97.9	98.6	101.2	102.3	104.1	103.5	101.1	82.7	62.7
1250	84.4	84.5	85.3	82.8	81.7	81.6	84.2	84.0	85.4	88.6	95.4	96.1	98.7	99.8	101.7	101.0	98.7	80.2	60.2
1600	81.3	81.4	82.5	80.0	79.0	79.0	81.6	81.4	82.8	86.0	92.8	93.5	96.1	97.3	99.1	98.5	96.2	77.7	57.7
2000	78.3	78.4	79.7	77.3	76.3	76.4	78.9	78.8	80.2	83.4	90.1	90.8	93.5	94.7	96.5	95.9	93.7	75.1	55.1
2500	75.0	75.1	76.5	74.2	73.2	73.4	76.0	75.8	77.2	80.4	87.1	87.9	90.5	91.6	93.6	92.9	90.7	72.0	52.0
3150	71.5	71.5	73.1	70.8	69.8	70.0	72.7	72.5	73.9	77.0	83.8	84.6	87.2	88.2	90.2	89.5	87.3	68.4	48.4
4000	67.3	67.4	69.0	66.7	65.8	66.1	68.8	68.9	70.2	73.4	80.0	80.7	83.3	84.5	86.2	85.5	83.6	64.6	44.6
5000	62.7	62.8	64.5	62.2	61.3	61.7	64.5	64.8	66.0	69.3	75.8	76.3	78.9	80.3	81.8	81.1	79.4	60.3	40.3
6300	57.9	58.0	59.7	57.5	56.6	57.1	59.9	60.4	61.7	64.9	71.2	71.7	74.3	75.9	77.1	76.4	75.0	55.8	35.8
8000	53.5	53.7	55.4	53.3	52.5	53.0	55.7	56.6	57.9	60.9	67.0	67.5	70.2	72.2	73.2	72.5	71.4	52.3	32.3
10000	48.9	49.1	50.9	48.9	48.0	48.6	51.2	52.4	53.8	56.7	62.4	62.9	65.8	68.1	69.0	68.3	67.5	48.6	28.6
12500	44.4	44.6	46.4	44.4	43.6	44.1	46.7	47.9	49.3	52.1	57.6	58.3	61.3	63.7	64.7	64.0	63.3	44.5	24.5
16000	39.5	39.7	41.5	39.5	38.7	39.2	41.7	43.0	44.5	47.1	52.4	53.2	56.4	59.0	60.0	59.4	58.6	40.1	20.1
20000	34.1	34.3	36.1	34.2	33.3	33.9	36.2	37.7	39.2	41.6	46.7	47.7	51.0	53.7	54.8	54.3	53.4	35.2	15.2
25000	28.2	28.5	30.2	28.4	27.5	28.1	30.3	31.9	33.4	35.6	40.5	41.6	45.1	46.1	49.2	48.8	47.8	30.0	10.0

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

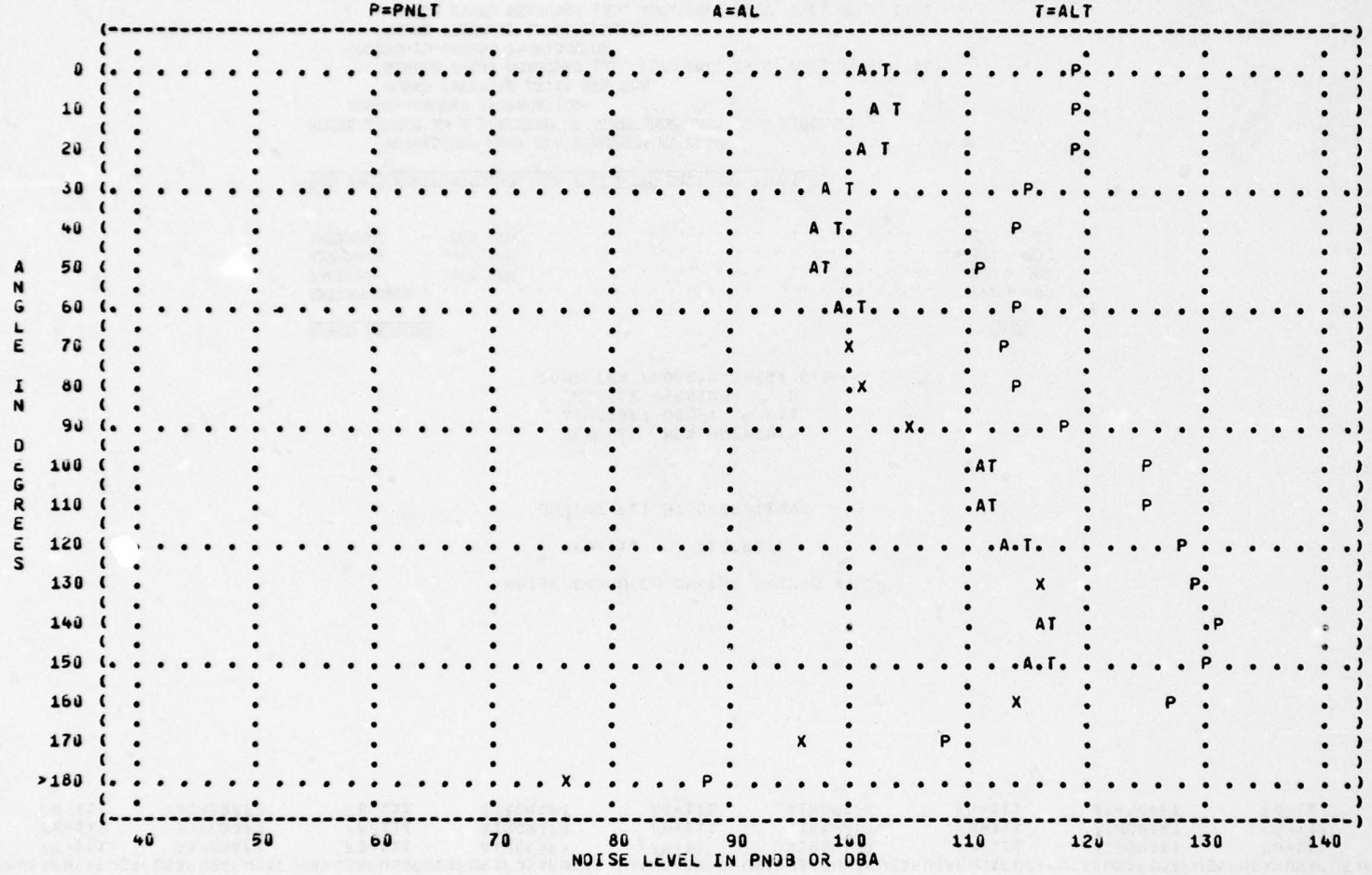
NOISE SOURCE/SUBJECT:
B-57G AIRCRAFT
ENG. J65-W5D
GROUND RUNUP

OPERATION:
MILITARY POWER, 101% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-016
RUN 03
AIRCRAFT CODE 070
OPERATION CODE 02004
PROFILE VERSION A
31 MAR 76
PAGE J3

P=PNLT A=AL T=ALT



> SPL DATA HERE EXTRAPOLATED FOR THIS ANGLE.

NOISE PRODUCED ON THE GROUND BY

FB-111 AIRCRAFT

DURING FLIGHT OPERATIONS

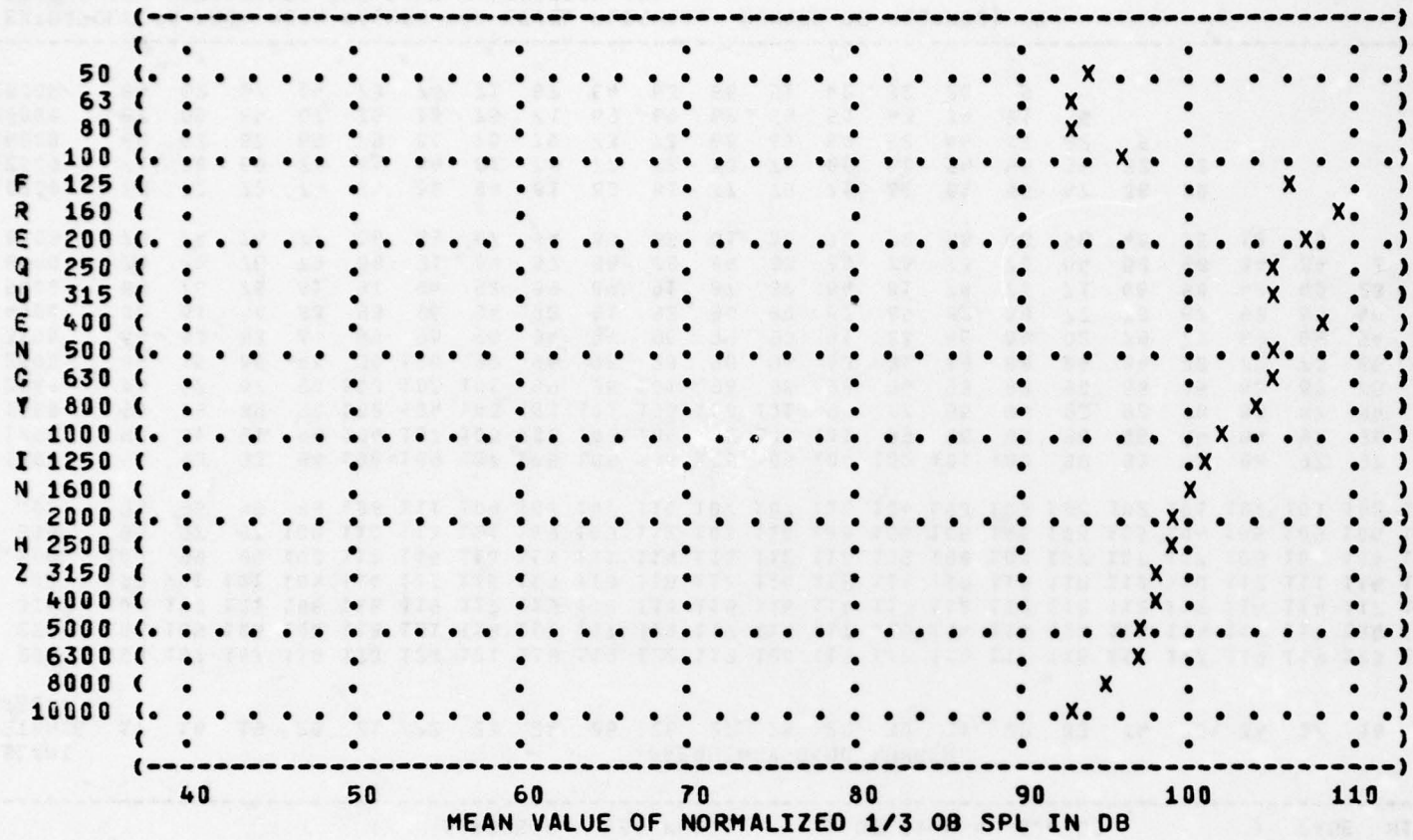
FLYOVER MEASUREMENTS
AIRCRAFT CODE: 080
PROFILE VERSION: B
COMPUTER PROGRAM OMEGA 6.6

POWER SETTING	PAGE
AFTERBURNER	291 - 299
TAKEOFF - 100% RPM	300 - 308
APPROACH - 81% RPM	309 - 317
INTERMED - 86% RPM	318 - 326

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
AIR-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO



FB-111 AFTERBURNER POWER 100 % RPM

AIRSPEED = 250 KNOTS
SLANT DISTANCE = 1000 FEET
NO. OF RECORDS = 7

TEMP = 59 F
REL HUMID = 70 %
IDENT: 6.6-080-101-240877

PNLT = 126.5 PNDB
PNL = 125.9 PNDB
ALT = 113.3 DBA
AL = 112.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 080
OPS CODE: 101
PROFILE VER: B
24 AUG 77
PAGE H1

AIRCRAFT: FB-111

OPERATION:
AFTERBURNER POWER
100 % RPM
AIRSPEED = 250 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																								
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	108	107	107	110	120	123	121	119	119	122	119	120	119	117	116	117	116	117	117	119	119	123	126	133
250	106	105	105	108	118	121	119	117	117	120	117	118	117	115	114	115	114	114	114	117	117	120	123	129
315	104	103	103	106	116	119	117	115	115	118	115	116	114	113	112	112	112	112	112	114	114	117	120	125
400	102	101	101	104	114	117	115	113	113	116	113	114	112	111	110	110	110	110	110	112	111	114	116	120
500	100	99	99	102	112	115	113	111	111	114	111	112	110	109	108	108	107	107	107	109	108	110	112	115
630	98	97	97	100	110	113	111	109	109	112	109	110	108	106	106	106	105	105	104	105	105	106	107	109
800	96	95	95	98	108	111	109	107	107	110	107	107	106	104	103	103	102	102	101	102	101	102	101	102
1000	94	93	93	96	106<	109	107	105	105	108	105	105	104	102	101	100	99	99	98	98	97	97	95	93
1250	92	91	91	94	104	107	105	103	103	105	102	103	101	99	98	98	96	96	94	94	92	91	87	83
1600	90	89	89	92	102	104	103	101	101	103	100	101	99	97	95	95	93	92	90	89	87	84	78	70
2000	88	87	87	90	100	102	101	99	98	101	98	98	96	94	93	92	90	88	85	83	80	76	67	55
2500	86	85	85	88	98	100	99	96	96	98	95	96	93	91	89	88	86	84	80	77	73	66	54	37
3150	84	83	83	86	95	98	96	94	94	96	93	93	91	88	86	84	82	79	74	69	64	54	38	14
4000	82	81	80	83	93	96	94	92	91	93	90	90	87	85	82	80	77	73	67	59	53	40	18	
5000	80	78	78	81	91	94	92	89	89	91	87	87	84	81	78	75	71	66	58	48	40	23		
6300	78	76	76	79	89	91	89	87	86	88	84	83	80	76	73	70	64	58	48	34	24	1		
8000	75	74	74	77	86	89	87	84	83	85	81	80	76	72	68	63	56	48	35	18	5			
10000	73	72	72	74	84	86	84	81	80	81	77	75	71	66	61	55	47	36	20					
12500	71	70	69	72	81	84	81	78	77	78	73	71	66	60	54	46	36	22	2					
16000	69	67	67	69	79	81	78	75	73	73	68	65	59	52	44	35	22	5						
20000	67	65	64	67	76	78	75	71	69	69	62	59	51	43	34	21	5							
25000	64	62	62	64	73	74	71	67	64	63	56	51	42	32	20	5								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
FB-111

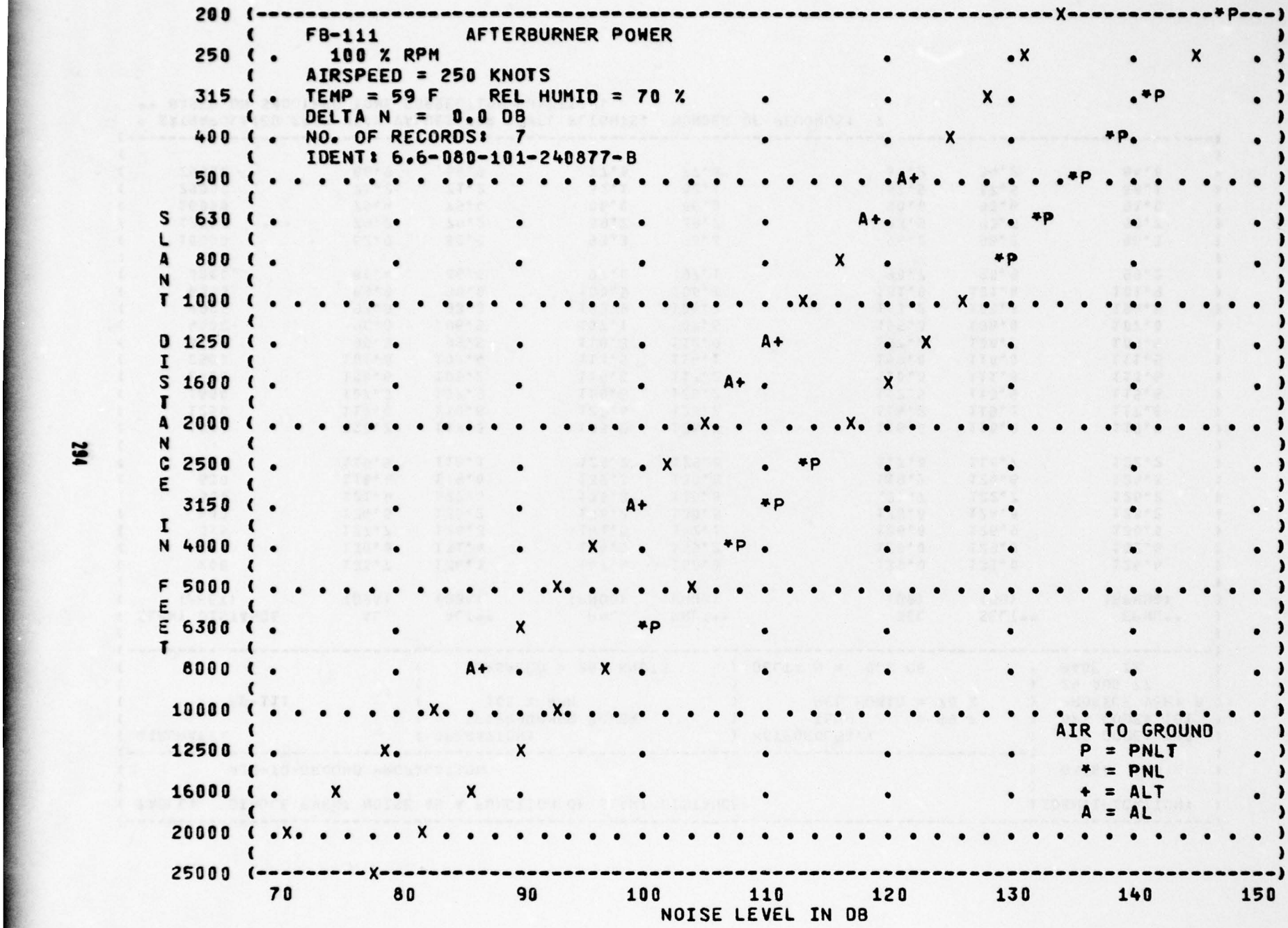
OPERATION:
AFTERBURNER POWER
100 % RPM
AIRSPEED = 250 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 080
OPS CODE: 101
PROFILE VER: 8
24 AUG 77
PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	133.7	134.3	147.4	148.0	130.0	131.0	134.4
250	130.8	131.4	144.5	145.2	128.0	129.0	132.6
315	127.7	128.3	141.5	142.1	126.0	126.9	130.5
400	124.6	125.2	138.2	138.8	123.8	124.8	128.2
500	121.4	122.0	135.2	135.8	121.7	122.7	126.2
630	118.4	119.0	132.3	132.9	119.7	120.6	124.3
800	115.5	116.1	129.2	129.8	117.8	118.7	122.2
1000	112.7	113.3	125.9	126.5	116.0	116.9	119.9
1250	110.0	110.6	122.6	123.2	114.2	115.2	117.6
1600	107.3	107.9	119.6	120.2	112.5	113.5	115.6
2000	104.6	105.2	116.6	117.2	110.8	111.8	113.6
2500	101.8	102.4	113.5	114.1	109.0	110.0	111.5
3150	98.9	99.5	110.3	110.9	107.2	108.2	109.4
4000	96.0	96.5	107.1	107.6	105.3	106.0	107.0
5000	93.0	93.3	103.9	104.2	103.2	103.8	104.5
6300	89.8	90.0	100.5	100.7	101.0	101.4	101.9
8000	86.4	86.6	97.0	97.1	98.7	98.9	99.2
10000	82.9	82.9	93.3	93.3	96.2	96.2	96.3
12500	79.2	79.2	89.7	89.7	93.5	93.5	93.7
16000	75.4	75.4	86.0	86.0	90.6	90.6	91.0
20000	71.2	71.2	82.1	82.1	87.5	87.5	88.1
25000	66.9	66.9	77.8	77.8	84.2	84.2	84.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


FB-111 AFTERBURNER POWER
100 % RPM
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 7
IDENT: 6.6-080-101-240877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

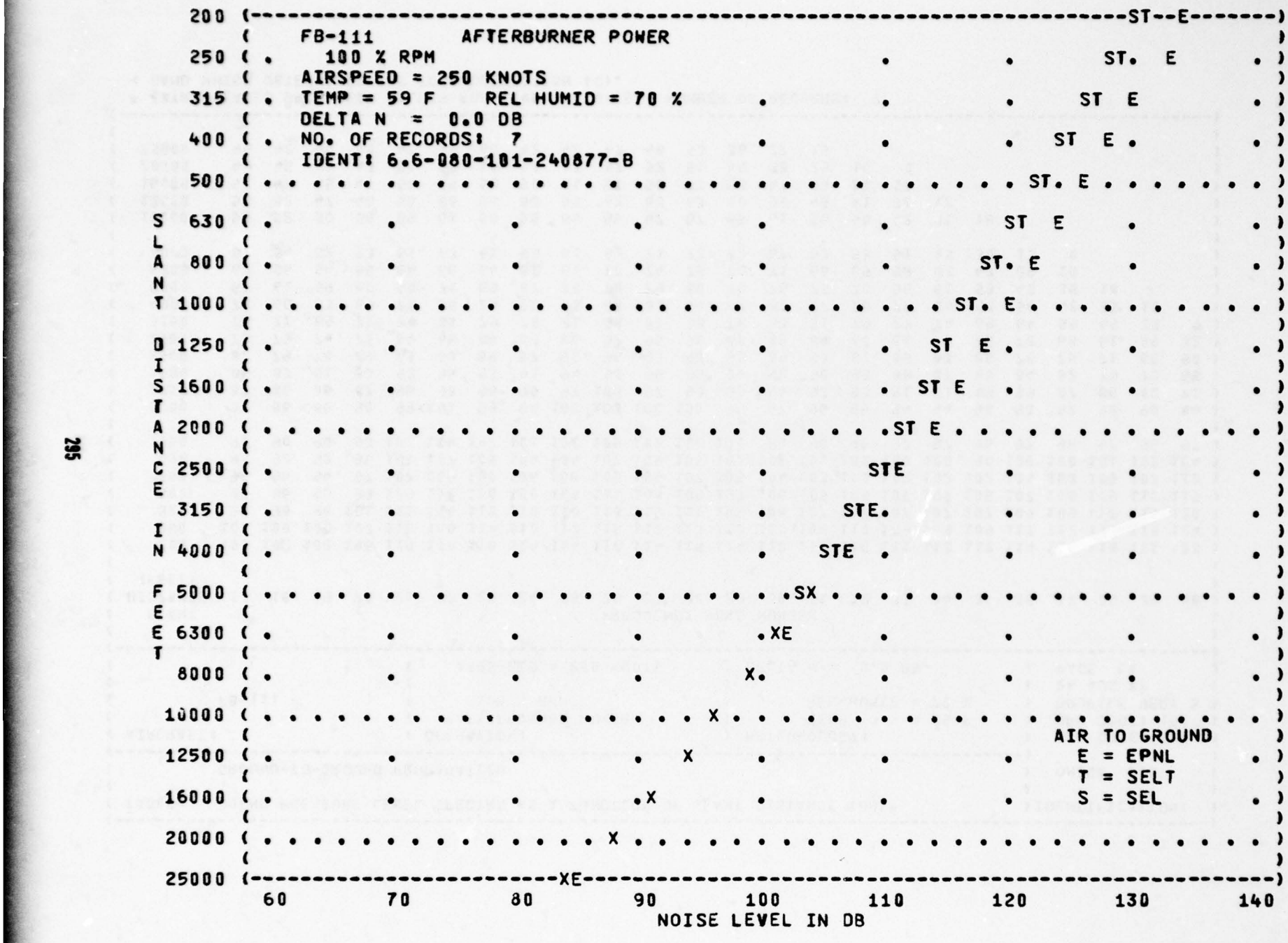

FB-111 AFTERBURNER POWER
100 % RPM
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 7
IDENT: 6.6-080-101-240877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: FB-111

OPERATION:
AFTERBURNER POWER
100 % RPM
AIRSPEED = 250 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 080
OPS CODE: 101
PROFILE VER: B
24 AUG 77
PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																								
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	103	102	102	105	115	118	116	114	114	117	114	115	114	112	111	112	111	112	112	114	114	118	121	128
250	101	100	100	103	113	116	114	112	112	115	112	113	112	110	109	110	109	109	109	112	112	115	118	124
315	99	98	98	101	111	114	112	110	110	113	110	111	109	108	107	107	107	107	107	109	109	112	115	120
400	97	96	96	99	109	112	110	108	108	111	108	109	107	106	105	105	105	105	105	107	106	109	111	115
500	95	94	94	97	107	109	108	106	106	109	106	107	105	104	103	103	102	102	102	104	103	105	107	110
630	93	92	92	95	104	107	105	104	104	107	104	105	103	101	101	101	100	100	99	100	100	101	102	104
800	91	90	90	93	102	104	102	101	102	105	102	102	101	99	98	98	97	97	96	97	96	97	96	97
1000	89	88	88	90	99<	101	99	98	100	103	100	100	99	97	96	95	94	94	93	93	92	92	90	88
1250	87	86	85	87	96	98	96	95	97	100	97	98	96	94	93	93	91	91	89	89	87	86	82	78
1600	85	83	81	83	92	94	93	91	94	98	95	96	94	92	90	90	88	87	85	84	82	79	73	65
2000	82	79	78	79	88	90	89	87	90	96	93	93	91	89	88	87	85	83	80	78	75	71	62	50
2500	78	75	74	75	84	86	84	83	86	92	90	91	88	86	84	83	81	79	75	72	68	61	49	32
3150	74	71	69	70	79	81	79	78	81	88	87	88	86	83	81	79	77	74	69	64	59	49	33	9
4000	70	66	63	65	73	75	74	72	76	83	83	84	82	80	77	75	72	68	62	54	48	35	13	
5000	65	61	59	60	69	71	69	67	70	78	79	80	79	76	73	70	66	61	53	43	35	18		
6300	60	56	54	55	64	66	64	62	64	72	74	75	74	71	68	65	59	53	43	29	19			
8000	57	54	52	53	61	63	61	59	61	69	71	72	70	67	63	58	51	43	30	13	0			
10000	55	52	50	50	59	61	58	56	58	65	67	67	65	61	56	50	42	31	15					
12500	53	50	47	48	56	58	56	53	55	62	63	63	60	55	49	41	31	17						
16000	51	47	45	45	54	55	52	50	51	57	58	57	53	47	39	30	17							
20000	49	45	42	43	51	52	49	46	47	53	52	51	45	38	29	16	0							
25000	46	42	40	40	48	49	45	42	42	47	46	43	36	27	15									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: FB-111

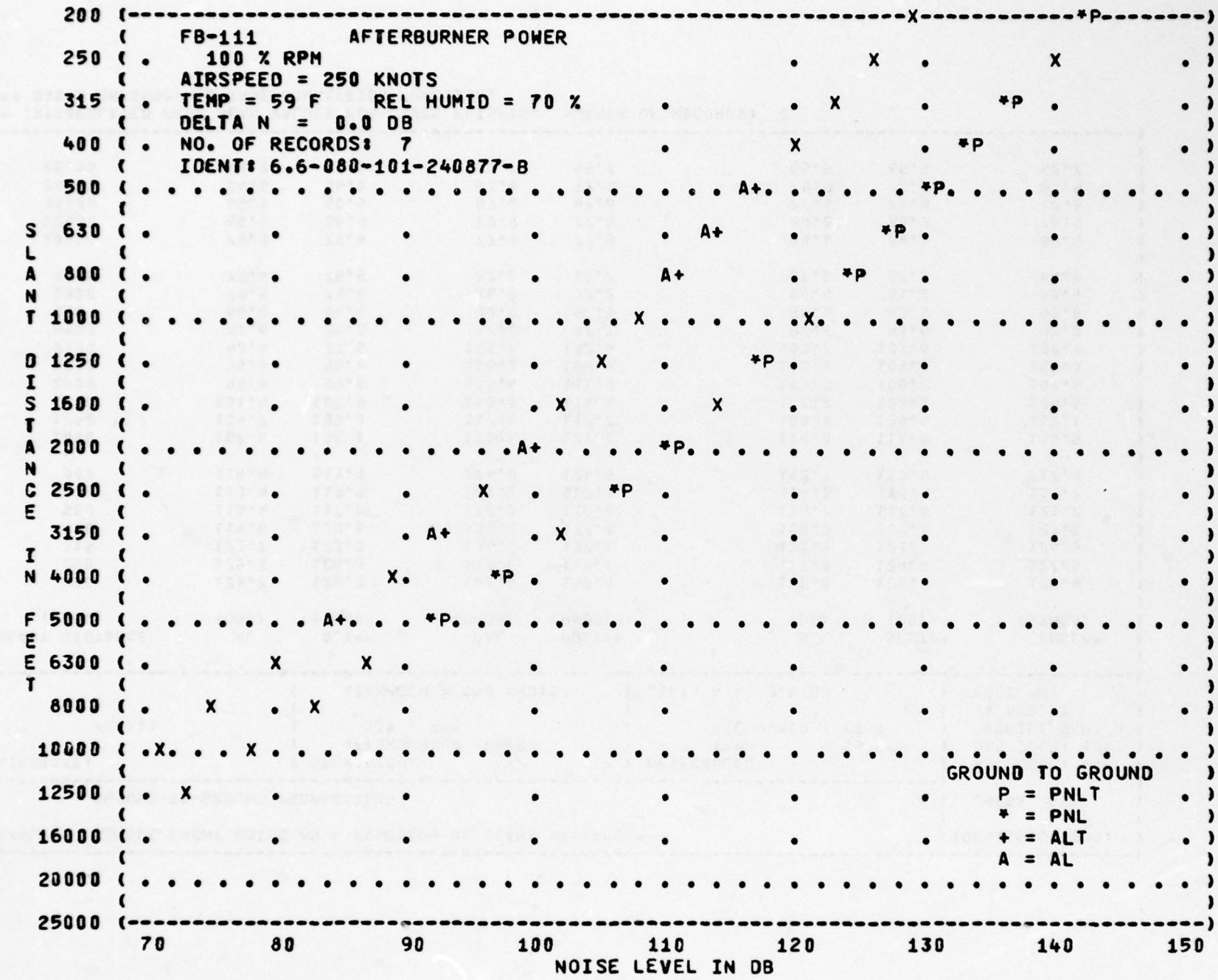
OPERATION:
AFTERBURNER POWER
100 % RPM
AIRSPEED = 250 KNOTS

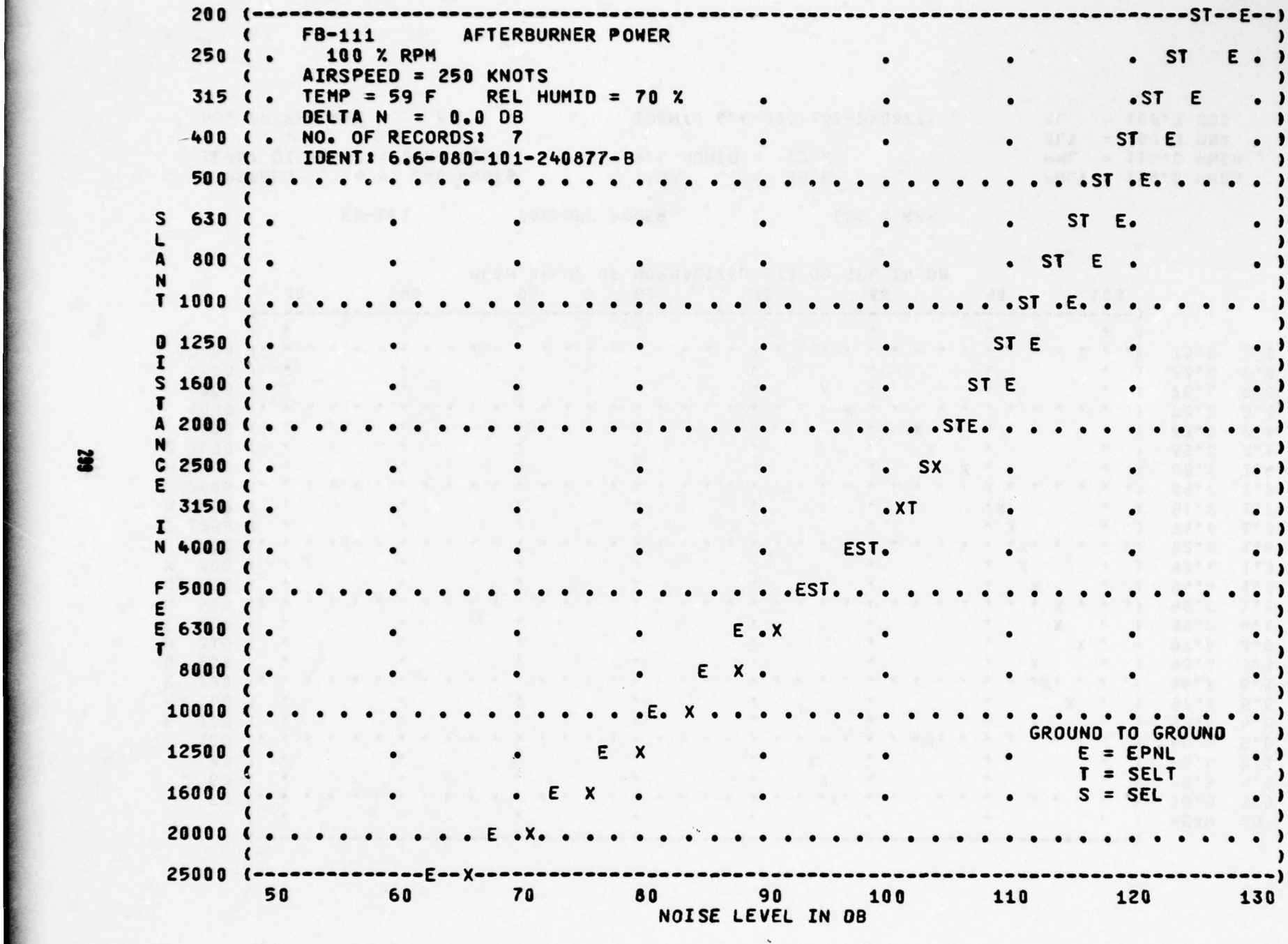
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

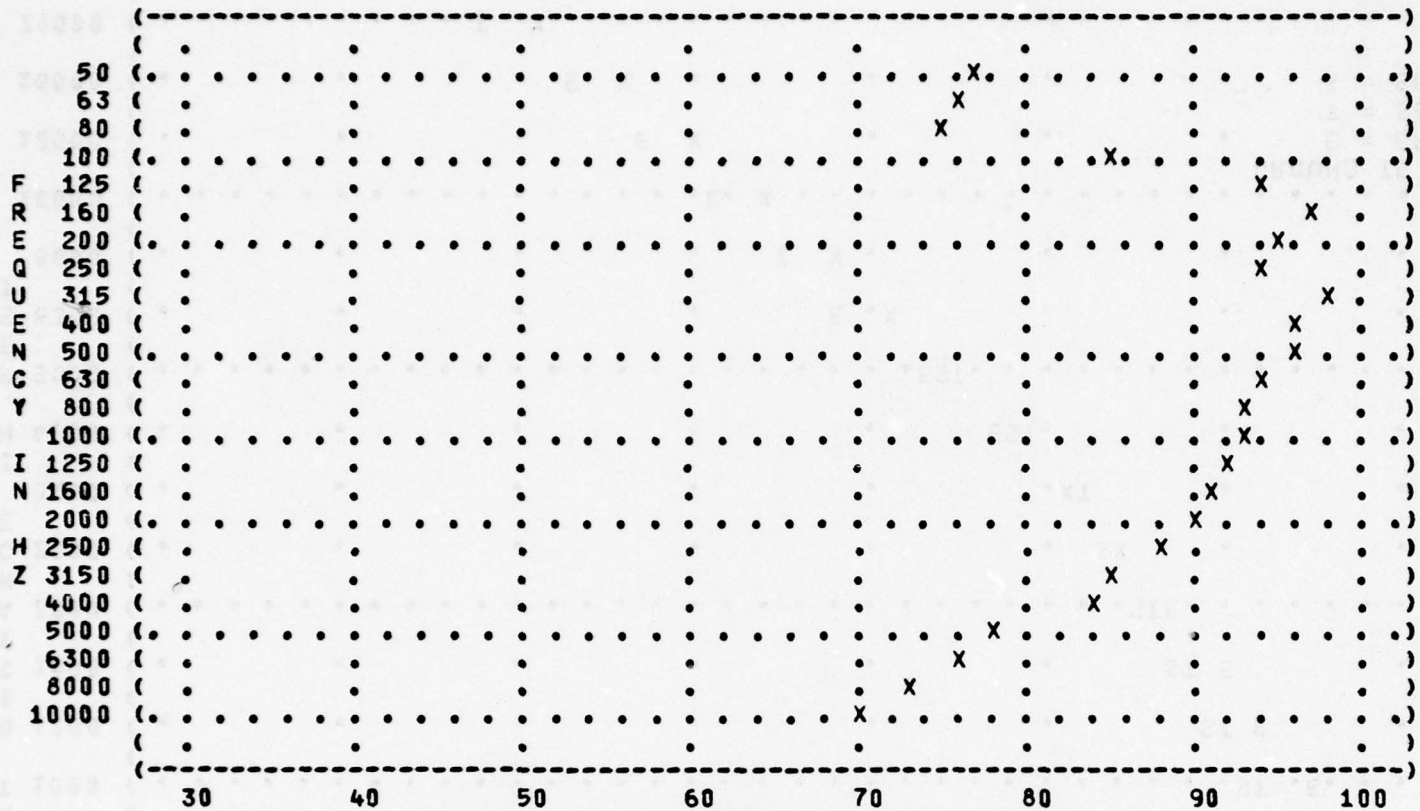
A/C CODE: 080
OPS CODE: 101
PROFILE VER: 8
24 AUG 77
PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	128.7	129.3	142.4	143.0	125.0	125.9	129.4
250	125.8	126.3	139.6	140.1	123.0	124.0	127.5
315	122.7	123.3	136.5	137.1	121.0	121.9	125.5
400	119.6	120.1	133.2	133.8	118.8	119.8	123.2
500	116.4	117.0	130.2	130.8	116.7	117.6	121.2
630	113.4	113.9	127.2	127.8	114.6	115.6	119.2
800	110.4	111.0	124.0	124.6	112.7	113.6	117.0
1000	107.6	108.1	120.6	121.1	110.8	111.8	114.5
1250	104.7	105.3	117.1	117.7	109.0	109.9	112.1
1600	101.9	102.5	113.8	114.4	107.2	108.1	109.8
2000	99.0	99.6	110.4	111.0	105.3	106.2	107.4
2500	95.8	96.4	106.3	106.9	103.1	104.0	104.3
3150	92.4	93.0	101.8	102.4	100.7	101.6	100.8
4000	88.6	89.0	97.2	97.7	97.8	98.6	97.0
5000	84.2	84.6	92.2	92.5	94.5	95.0	92.8
6300	79.5	79.8	86.9	87.2	90.8	91.2	88.4
8000	75.4	75.5	82.6	82.7	87.6	87.8	84.8
10000	70.8	70.8	77.9	77.9	84.1	84.1	80.9
12500	65.9	65.9	72.9	72.9	80.2	80.2	76.9
16000	60.5	60.5	67.6	67.6	75.8	75.8	72.6
20000	54.6	54.6	61.8	61.8	70.9	70.9	67.9
25000	48.2	48.2	55.7	55.7	65.5	65.5	62.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 7
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


FB-111 AFTERBURNER POWER
100 % RPM
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 7
IDENT: 6.6-080-101-240877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


FB-111 AFTERBURNER POWER
100 % RPM
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 7
IDENT: 6.6-080-101-240877-B
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB



FB-111 TAKEOFF POWER 100 % RPM

AIRSPEED = 240 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-080-103-240877

PNLT = 114.0 PNDB
PNL = 114.0 PNDB
ALT = 102.3 DBA
AL = 102.3 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 080
OPS CODE: 103
PROFILE VER: B
24 AUG 77
PAGE H2

AIRCRAFT: FB-111

OPERATION: TAKEOFF POWER, 100 % RPM, AIRSPEED = 240 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	91	90	90	99	108	111	109	108	112	110	110	109	108	108	108	108	107	106	105	105	101	103	105	111
250	89	88	88	97	106	109	107	106	110	108	108	107	106	106	106	105	105	104	102	103	99	100	102	107
315	87	86	86	95	104	107	105	104	108	106	106	105	104	104	103	103	102	102	100	100	96	97	99	103
400	85	84	84	93	102	105	103	102	106	104	104	103	102	102	101	101	100	99	97	98	93	94	95	98
500	83	82	82	91	100	103	101	100	104	102	102	101	100	100	99	99	98	97	95	95	90	90	90	93
630	81	80	79	89	98	101	99	98	102	100	100	99	98	97	97	96	95	94	92	91	86	86	85	86
800	79	78	77	87	96	99	97	96	100	98	98	97	95	95	94	94	92	91	89	88	83	81	80	79
1000	77	76	75	85	94	97	95	94	98	96	96	94	93	93	92	91	90	88	85	84	78	76	73	70
1250	75	73	73	83	92	95	93	92	96	94	93	92	91	90	89	88	87	85	82	79	73	70	65	59
1600	73	71	71	80	90	93	91	90	93	91	91	90	88	88	86	85	83	81	77	74	68	63	56	46
2000	71	69	69	78	88	91	88	87	91	89	89	87	86	85	84	82	80	77	73	69	61	54	44	31
2500	69	67	67	76	86	89	86	85	89	87	86	85	83	82	80	79	76	73	67	62	53	44	30	11
3150	67	65	65	74	83	86	84	83	86	84	84	82	80	79	77	75	72	67	61	53	44	32	13	
4000	65	63	63	72	81	84	82	81	84	82	81	79	77	75	73	70	66	61	53	44	33	17		
5000	63	61	61	70	79	82	79	78	81	79	78	76	73	71	69	65	61	54	44	32	19			
6300	60	59	59	68	77	80	77	75	79	76	75	72	69	67	64	59	54	46	34	18	3			
8000	58	57	56	65	74	77	74	73	76	73	71	68	65	62	58	53	45	36	21	0				
10000	56	55	54	63	72	75	71	70	73	69	67	64	60	56	51	45	36	23	5					
12500	54	52	52	61	69	72	69	67	69	65	63	59	54	50	43	35	24	8						
16000	52	50	49	58	67	69	65	63	65	61	58	53	48	42	34	23	10							
20000	49	47	47	55	64	66	62	59	61	56	52	47	40	32	22	9								
25000	47	45	44	52	61	62	58	55	56	50	46	39	30	21	9									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
F8-111

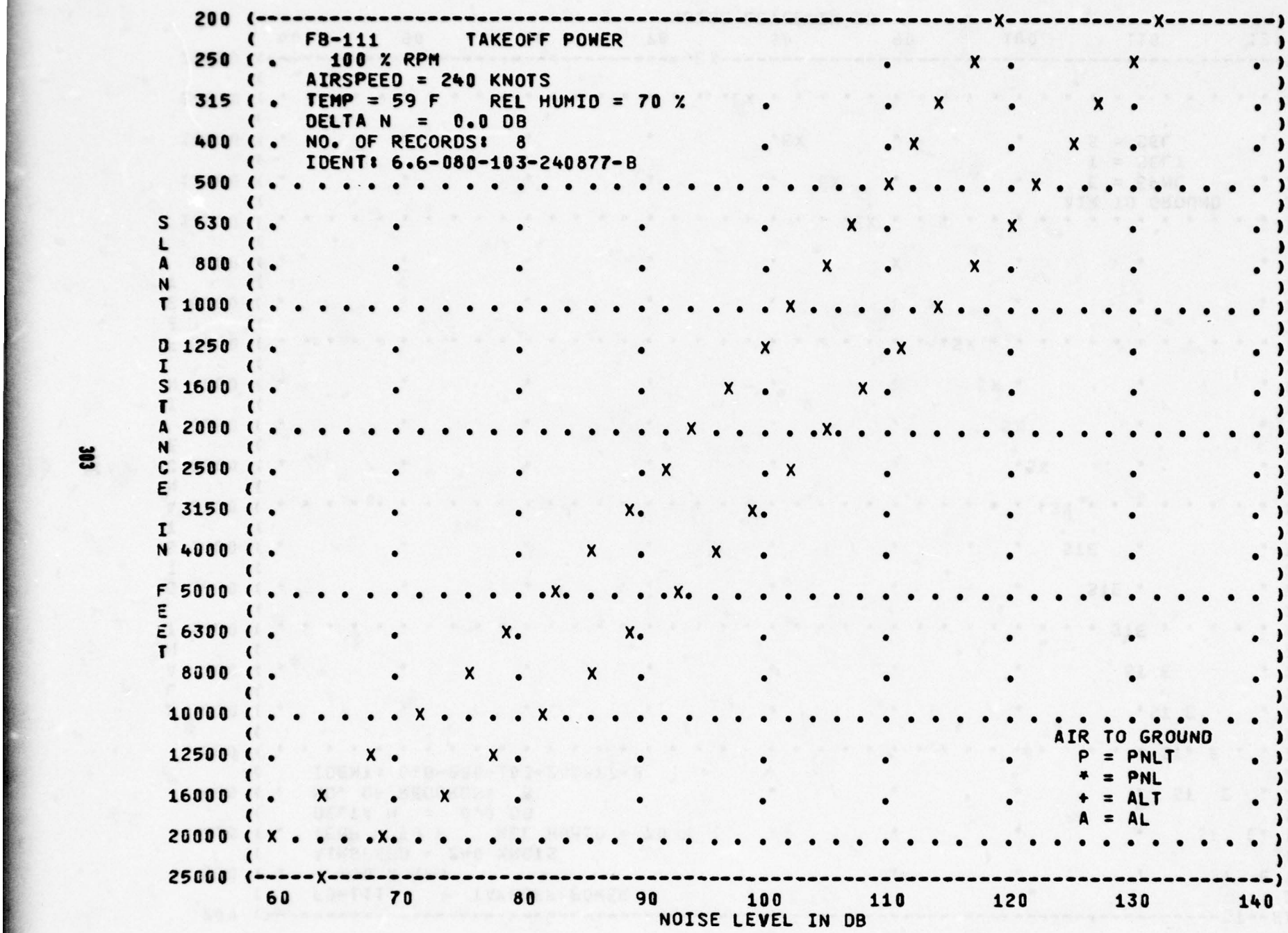
OPERATION:
TAKEOFF POWER
100 % RPM
AIRSPEED = 240 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 080
OPS CODE: 103
PROFILE VER: B
24 AUG 77
PAGE I2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	119.0	119.0	132.2	132.2	117.4	118.3	121.5
250	116.7	116.7	129.8	129.8	116.0	117.0	120.1
315	114.3	114.3	127.4	127.4	114.7	115.6	118.6
400	112.0	112.0	124.9	124.9	113.3	114.3	117.2
500	109.6	109.6	122.4	122.4	112.0	112.9	115.6
630	107.2	107.2	119.7	119.7	110.6	111.5	113.9
800	104.7	104.7	116.9	116.9	109.1	110.1	112.2
1000	102.3	102.3	114.0	114.0	107.7	108.6	110.3
1250	99.7	99.7	111.0	111.0	106.1	107.0	108.2
1600	97.1	97.1	108.1	108.1	104.5	105.4	106.4
2000	94.4	94.4	105.2	105.2	102.8	103.7	104.5
2500	91.6	91.6	102.2	102.2	101.0	101.9	102.5
3150	88.7	88.7	99.2	99.2	99.1	100.0	100.4
4000	85.7	85.7	96.0	96.0	97.1	97.8	98.1
5000	82.6	82.6	92.8	92.8	95.0	95.5	95.6
6300	79.3	79.3	89.4	89.4	92.7	93.1	93.1
8000	75.9	75.9	85.8	85.8	90.2	90.4	90.3
10000	72.2	72.2	82.1	82.1	87.6	87.6	87.4
12500	68.4	68.4	78.0	78.0	84.8	84.8	84.4
16000	64.4	64.4	73.7	73.7	81.8	81.8	81.0
20000	60.1	60.1	69.1	69.1	78.5	78.5	77.4
25000	55.5	55.5	64.3	64.3	74.9	74.9	73.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


F8-111 TAKEOFF POWER
100 % RPM
AIRSPEED = 240 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-080-103-240877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

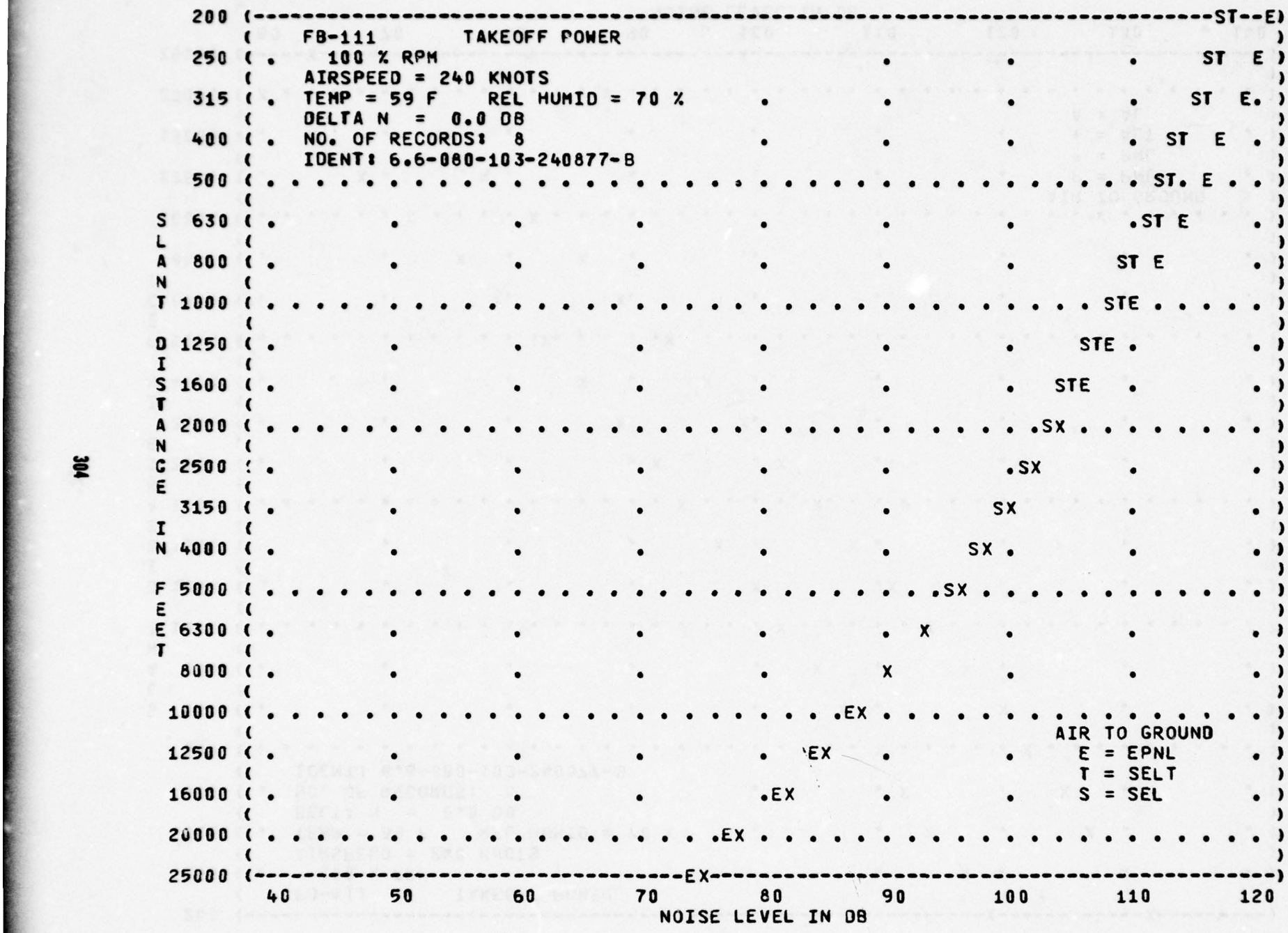

FB-111 TAKEOFF POWER
100 % RPM
AIRSPEED = 240 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-080-103-240877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 080
OPS CODE: 103
PROFILE VER: B
24 AUG 77
PAGE L2

AIRCRAFT: FB-111

OPERATION:
TAKEOFF POWER
100 % RPM
AIRSPEED = 240 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %

DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	86	85	85	94	103	106	104	103	107	105	105	104	103	103	103	103	102	101	100	100	96	98	100	106
250	84	83	83	92	101	104	102	101	105	103	103	102	101	101	101	100	100	99	97	98	94	95	97	102
315	82	81	81	90	99	102	100	99	103	101	101	100	99	99	98	98	97	97	95	95	91	92	94	98
400	80	79	79	88	97	100	98	97	101	99	99	98	97	97	96	96	95	94	92	93	88	89	90	93
500	78	77	77	86	95	98	95	95	99	97	97	96	95	95	94	94	93	92	90	90	85	85	85	88
630	76	75	74	84	92	95	93	92	97	95	95	94	93	92	92	91	90	89	87	86	81	81	80	81
800	74	73	72	81	90	92	90	90	95	93	93	92	90	90	89	89	87	86	84	83	78	76	75	74
1000	72	71	70	78	87	89	87	87	93<	91	91	89	88	88	87	86	85	83	80	79	73	71	68	65
1250	70	68	67	75	84	86	84	83	89	89	88	87	86	85	84	83	82	80	77	74	68	65	60	54
1600	68	65	64	72	80	83	80	80	86	86	86	85	83	83	81	80	78	76	72	69	63	58	51	41
2000	65	62	60	68	76	79	76	76	83	84	84	82	81	80	79	77	75	72	68	64	56	49	39	26
2500	61	58	56	64	72	74	72	71	79	80	81	80	78	77	75	74	71	68	62	57	48	39	25	6
3150	57	53	51	59	67	70	67	66	74	76	78	77	75	74	72	70	67	62	56	48	39	27	8	
4000	53	48	46	53	61	64	61	61	69	71	74	73	72	70	68	65	61	56	48	39	28	12		
5000	47	44	41	48	57	59	56	56	63	66	69	69	68	66	64	60	56	49	39	27	14			
6300	42	39	37	44	52	54	51	50	57	60	65	64	63	62	59	54	49	41	29	13				
8000	40	37	34	41	49	52	49	48	54	57	61	60	59	57	53	48	40	31	16					
10000	38	35	32	39	47	49	46	45	51	53	57	56	54	51	46	40	31	18						
12500	36	32	30	37	44	46	43	42	47	49	53	51	48	45	38	30	19	3						
16000	34	30	27	34	42	43	40	38	43	45	48	45	42	37	29	18	5							
20000	31	27	25	31	39	40	36	34	39	40	42	39	34	27	17	4								
25000	29	25	22	28	36	37	33	30	34	34	36	31	24	16	4									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: FB-111

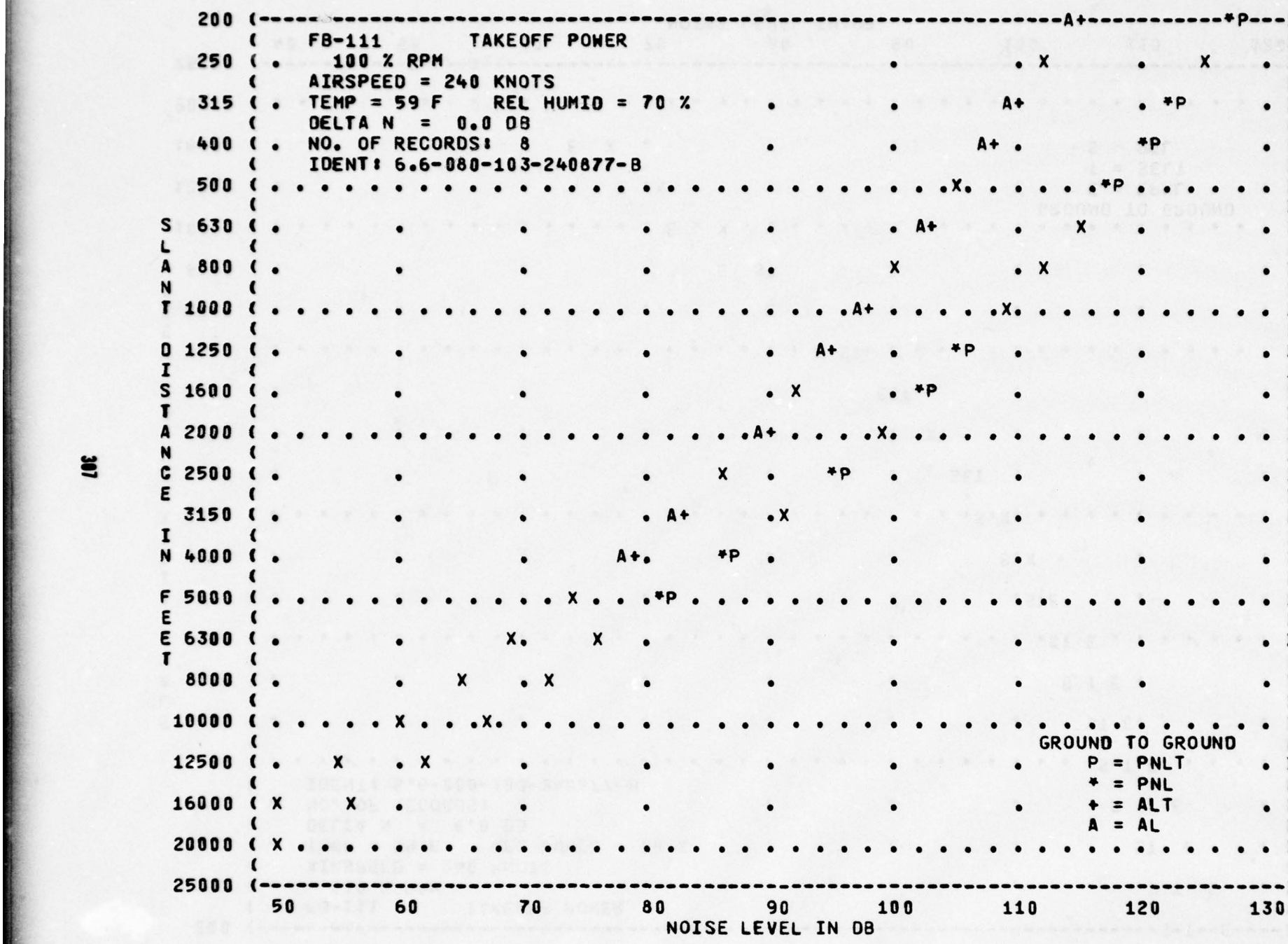
OPERATION: TAKEOFF POWER, 100 % RPM, AIRSPEED = 240 KNOTS

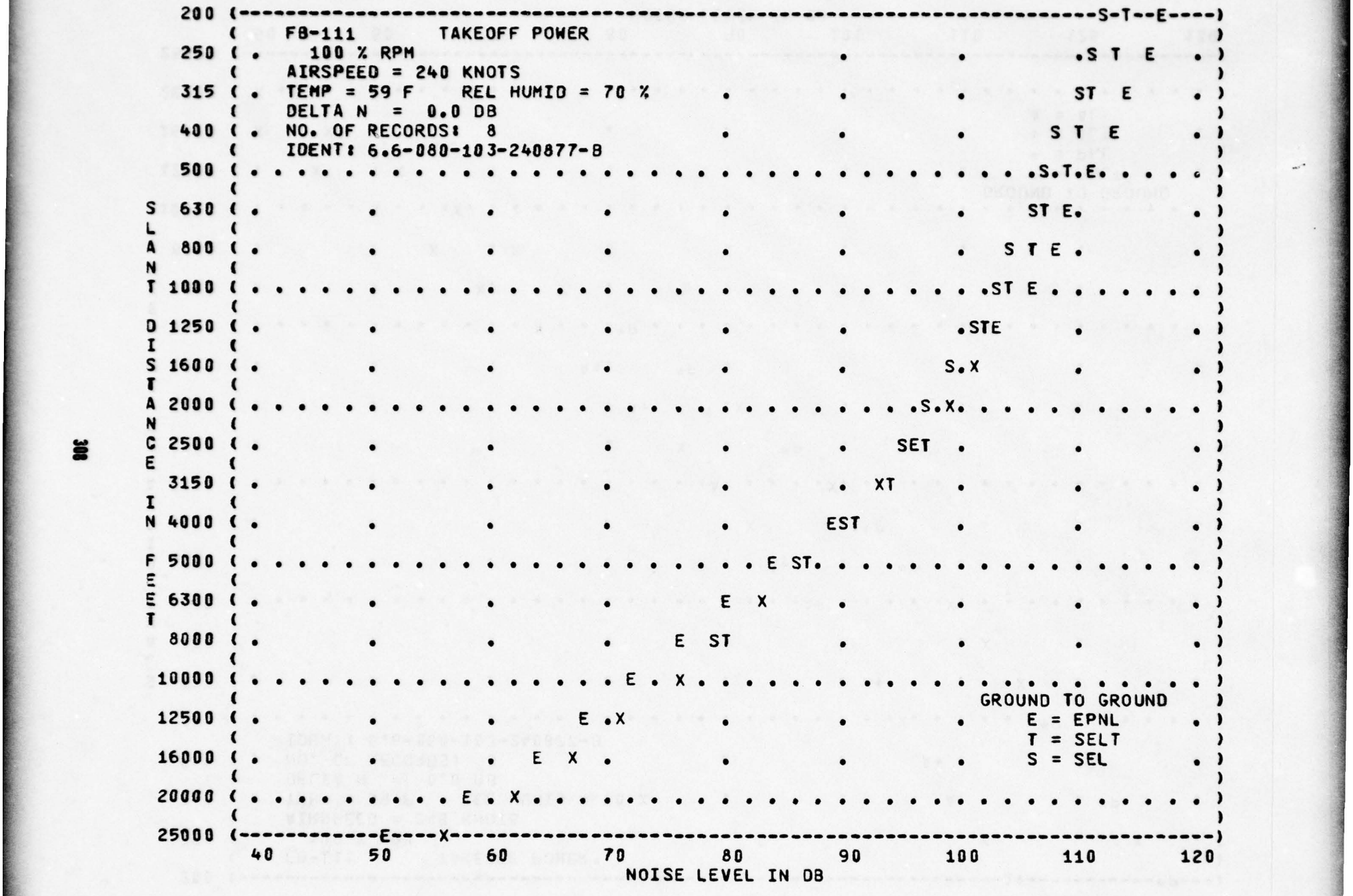
METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

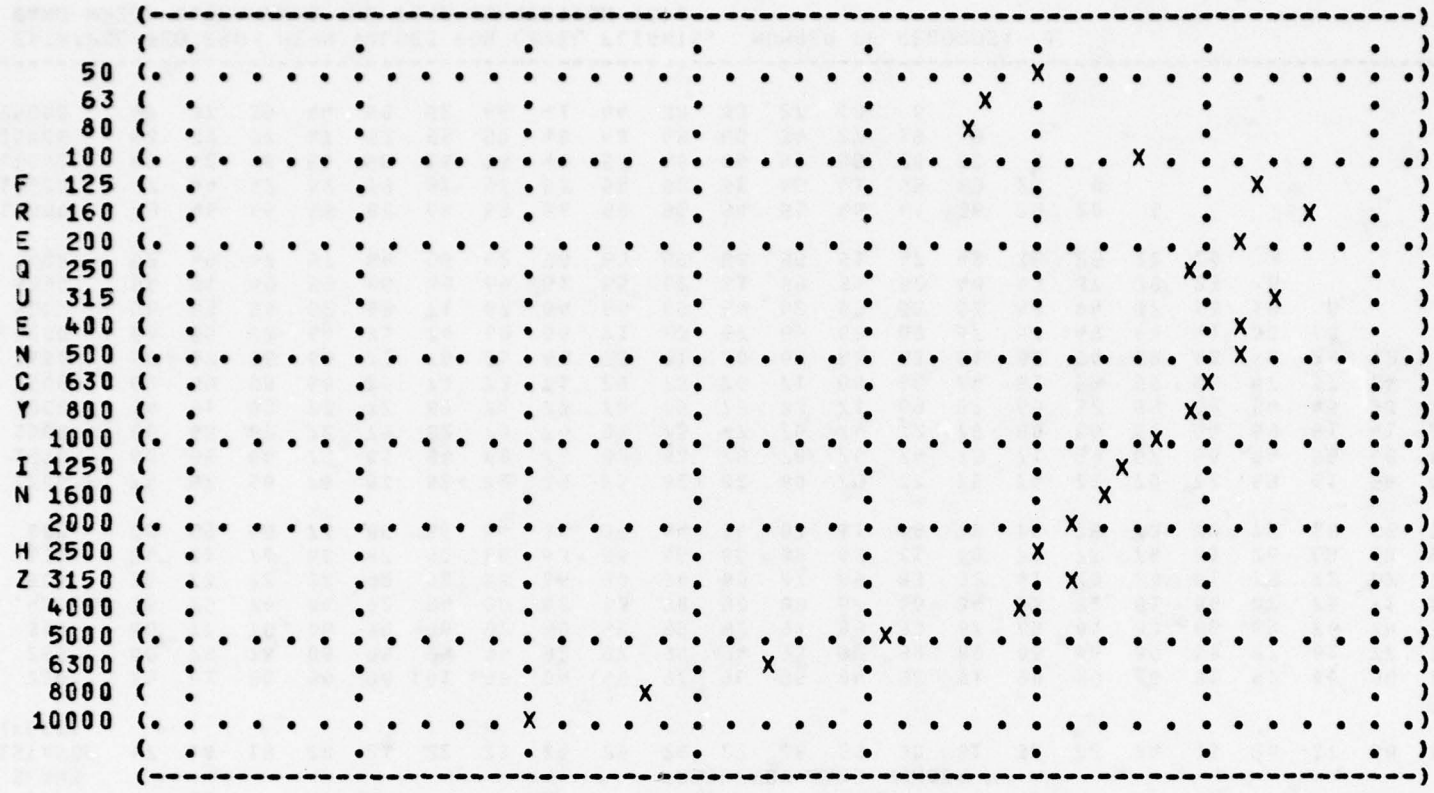
A/C CODE: 080
OPS CODE: 103
PROFILE VER: B
24 AUG 77
PAGE M2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	114.0	114.6	127.2	127.8	112.4	113.9	117.1
250	111.7	112.3	124.8	125.4	111.0	112.6	115.7
315	109.3	110.0	122.4	123.0	109.7	111.3	114.3
400	106.9	107.6	119.9	120.5	108.3	109.9	112.8
500	104.6	105.2	117.3	117.9	106.9	108.5	111.2
630	102.1	102.8	114.6	115.2	105.5	107.1	109.5
800	99.7	100.3	111.7	112.4	104.1	105.6	107.6
1000	97.2	97.8	108.7	109.3	102.5	104.1	105.6
1250	94.5	95.1	105.4	106.1	100.9	102.5	103.3
1600	91.7	92.4	102.0	102.6	99.1	100.7	100.9
2000	88.9	89.5	98.7	99.4	97.3	98.9	98.6
2500	85.7	86.4	95.0	95.6	95.1	96.7	95.9
3150	82.2	82.9	90.8	91.4	92.6	94.2	92.7
4000	78.4	78.9	86.2	86.7	89.8	91.0	88.8
5000	74.0	74.4	81.1	81.5	86.4	87.3	84.4
6300	69.2	69.5	75.9	76.1	82.6	83.3	79.8
8000	64.9	65.0	71.6	71.7	79.3	79.6	76.2
10000	60.2	60.2	67.0	67.0	75.6	75.6	72.3
12500	55.1	55.1	61.9	61.9	71.5	71.5	68.2
16000	49.5	49.5	56.2	56.2	66.9	66.9	63.5
20000	43.5	43.5	49.9	49.9	61.9	61.9	58.3
25000	36.9	36.9	42.2	42.2	56.3	56.3	51.5

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


FB-111 TAKEOFF POWER
100 % RPM
AIRSPEED = 240 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-080-103-240877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F8-111 TAKEOFF POWER
100 % RPM
AIRSPEED = 240 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-080-103-240877-B
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB



FB-111 APPROACH 81 % RPM

AIRSPEED = 150 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-080-105-240877

PNLT = 99.6 PNDB
PNL = 99.0 PNDB
ALT = 87.9 DBA
AL = 87.3 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

AIRCRAFT: FB-111

OPERATION: APPROACH, 81 % RPM, AIRSPEED = 150 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

IDENTIFICATION: OMEGA 6.6, A/C CODE: 080, OPS CODE: 105, PROFILE VER: B, 24 AUG 77, PAGE H1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																								
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	84	81	80	90	98	101	96	94	99	97	96	95	94	92	91	90	89	88	91	90	83	80	78	79
250	82	79	78	88	96	98	94	92	97	94	94	93	92	90	89	88	86	85	88	87	81	77	75	76
315	80	77	76	86	94	96	92	90	95	92	92	91	89	88	87	85	84	83	86	84	78	74	72	72
400	78	75	74	84	92	94	90	88	93	90	90	89	87	86	84	83	82	81	84	82	75	71	68	67
500	76	73	72	82	90	92	88	86	90	88	88	87	85	83	82	81	80	78	81	79	72	67	64	62
630	74	71	70	80	87	90	86	83	88	86	86	85	83	81	80	79	77	76	78	76	69	63	59	56
800	72	69	68	78	85	88	84	81	86	84	84	83	81	79	78	76	75	73	75	72	65	59	54	49
1000	70	67	66	76	83	86<	82	79	84	82	82	80	79	77	75	74	72	70	72	69	61	54	47	40
1250	68	65	64	74	81	84	80	77	82	80	79	78	76	74	73	71	69	67	68	64	56	48	40	30
1600	66	63	62	72	79	82	78	75	80	78	77	76	74	72	70	68	66	63	64	59	51	41	31	18
2000	64	61	60	70	77	80	76	73	78	75	75	73	71	69	67	65	62	59	60	54	45	33	20	3
2500	62	59	58	68	75	78	73	71	75	73	72	71	68	66	64	61	59	55	54	47	37	24	7	
3150	60	57	56	66	73	76	71	68	73	71	70	68	66	63	61	58	54	50	48	40	29	12		
4000	58	55	53	64	71	74	69	66	71	68	67	65	62	60	57	53	49	44	41	30	18			
5000	56	53	51	62	69	71	67	64	68	65	64	62	59	56	53	48	44	37	33	19	6			
6300	54	51	49	59	66	69	64	61	65	62	61	59	55	52	48	43	37	30	23	6				
8000	52	49	47	57	64	66	62	58	63	59	58	55	51	47	42	36	29	20	10					
10000	49	46	45	55	62	64	59	56	60	56	54	51	46	41	36	29	20	8						
12500	47	44	42	52	59	61	56	53	56	52	50	46	41	35	29	20	9							
16000	45	42	40	50	56	58	53	49	53	48	45	41	35	28	20	9								
20000	43	39	37	47	53	55	50	45	48	43	40	34	27	19	9									
25000	40	37	35	44	50	52	46	41	44	38	33	27	18	8										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
FB-111

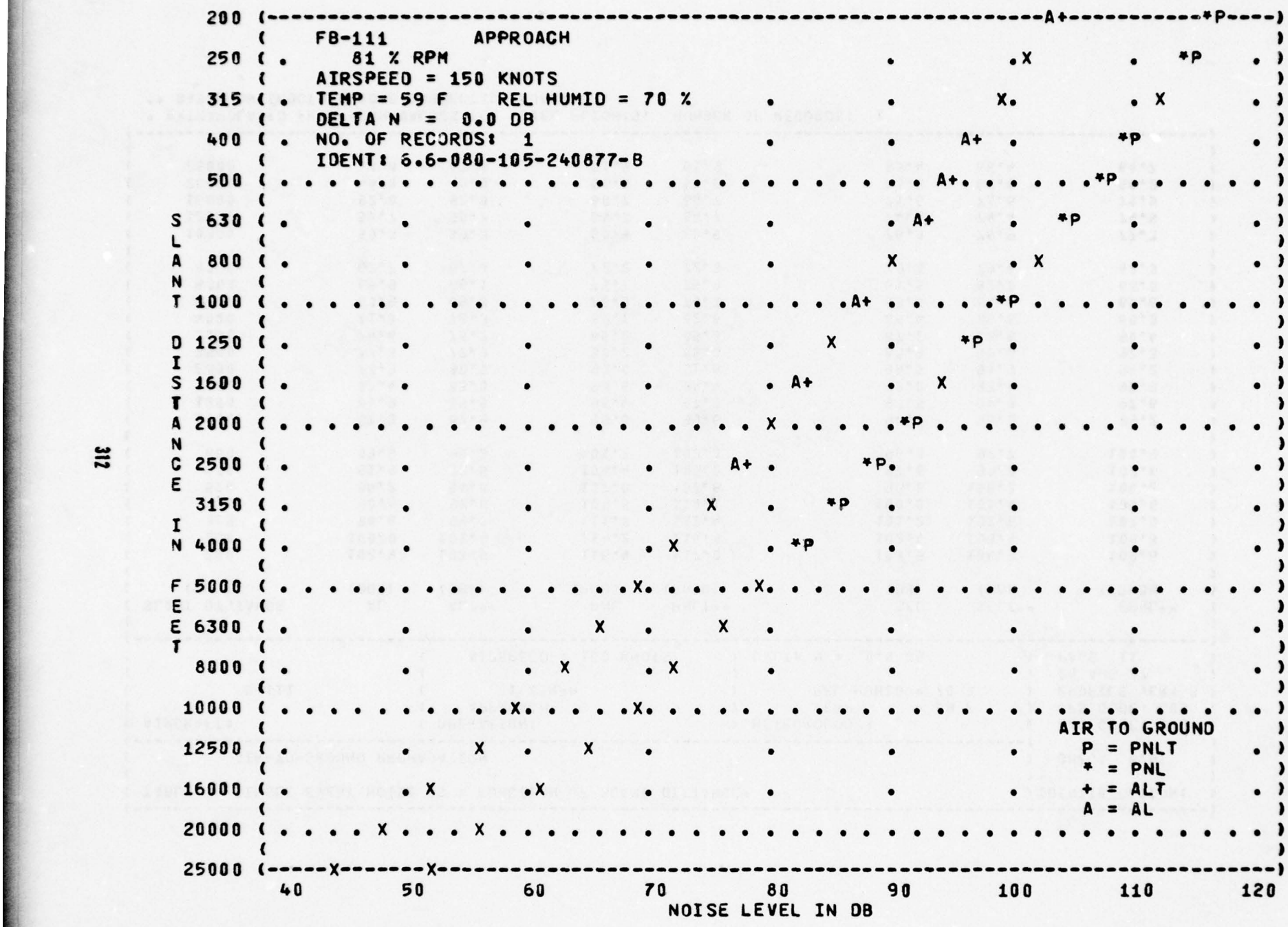
OPERATION:
APPROACH
81 % RPM
AIRSPEED = 150 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 080
OPS CODE: 105
PROFILE VER: B
24 AUG 77
PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	102.9	103.5	116.4	117.0	103.5	104.9	109.6
250	100.8	101.4	114.2	114.8	102.4	103.8	108.3
315	98.6	99.2	111.8	112.4	101.2	102.6	107.0
400	96.4	97.0	109.5	110.1	100.0	101.4	105.6
500	94.2	94.8	107.0	107.6	98.8	100.2	104.2
630	91.9	92.5	104.4	105.0	97.6	99.0	102.6
800	89.6	90.2	101.7	102.3	96.3	97.7	100.9
1000	87.3	87.9	99.0	99.6	94.9	96.3	99.2
1250	84.9	85.5	96.4	97.0	93.5	94.9	97.6
1600	82.4	83.0	93.8	94.4	92.0	93.4	95.9
2000	79.9	80.5	91.0	91.6	90.5	91.9	94.2
2500	77.3	77.9	88.2	88.8	88.9	90.3	92.3
3150	74.6	75.2	85.2	85.8	87.2	88.6	90.4
4000	71.8	72.3	82.1	82.6	85.4	86.6	88.0
5000	68.9	69.3	78.9	79.3	83.5	84.4	85.6
6300	65.9	66.1	75.7	75.9	81.5	82.0	83.0
8000	62.7	62.8	72.2	72.3	79.3	79.6	80.3
10000	59.3	59.3	68.5	68.5	76.9	76.9	77.3
12500	55.7	55.7	64.7	64.7	74.4	74.4	74.5
16000	52.0	52.0	60.7	60.7	71.6	71.6	71.5
20000	48.0	48.0	56.5	56.5	68.6	68.6	68.2
25000	43.8	43.8	51.9	51.9	65.4	65.4	64.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


FB-111 APPROACH
81 % RPM
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-080-105-240877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

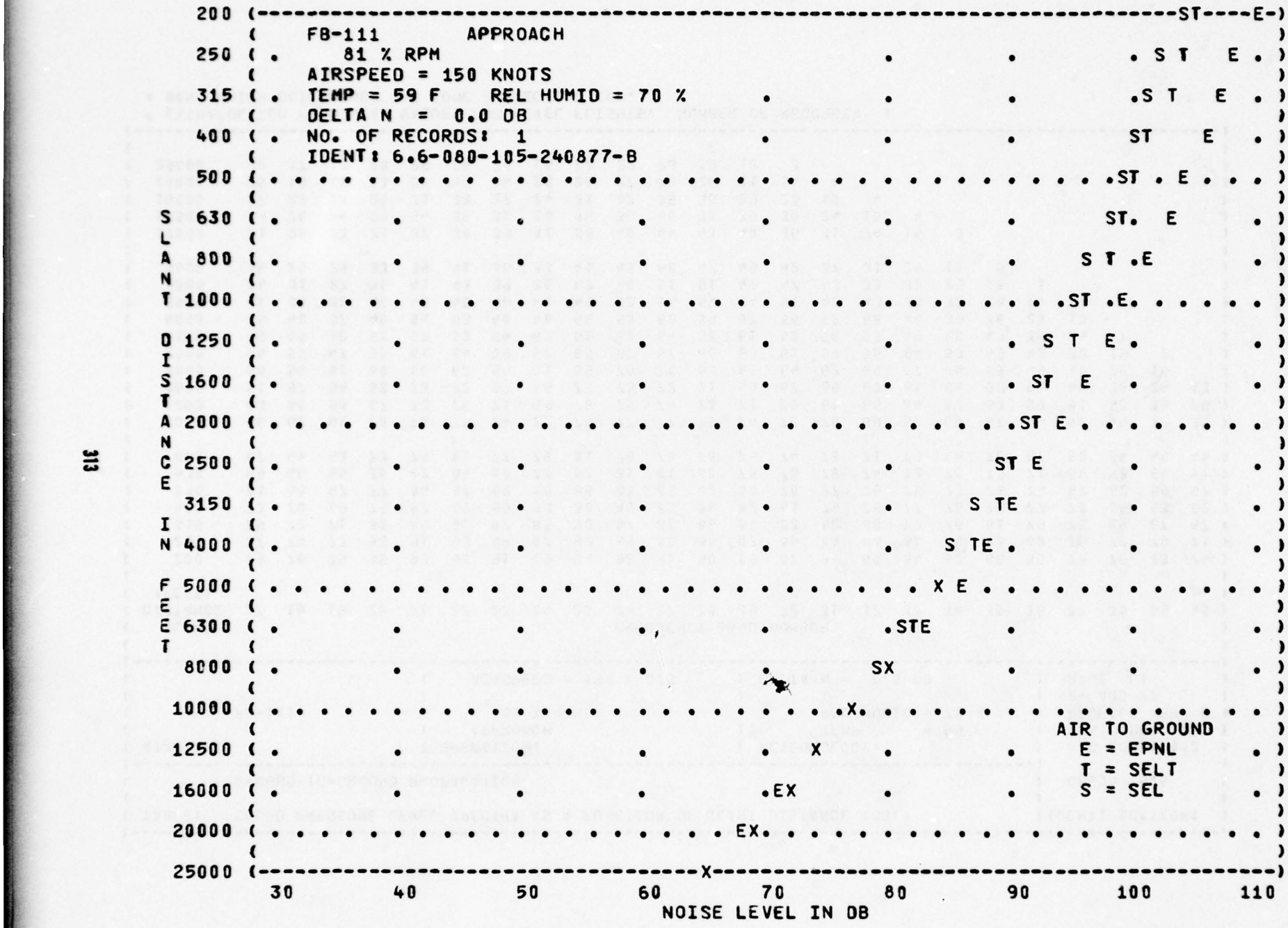

FB-111 APPROACH
81 % RPM
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-080-105-240877-B
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: F8-111

OPERATION:
APPROACH
81 % RPM
AIRSPEED = 150 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 080
OPS CODE: 105
PROFILE VER: B
24 AUG 77
PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																						
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	79	76	75	85	93	96	91	89	94	92	91	90	89	87	86	85	84	83	86	85	78	75	73	74
250	77	74	73	83	91	93	89	87	92	89	89	88	87	85	84	83	81	80	83	82	76	72	70	71
315	75	72	71	81	89	91	87	85	90	87	87	86	84	83	82	80	79	78	81	79	73	69	67	67
400	73	70	69	79	87	89	85	83	88	85	85	84	82	81	79	78	77	76	79	77	70	66	63	62
500	71	68	67	77	84	87	82	80	85	83	83	82	80	78	77	76	75	73	76	74	67	62	59	57
630	69	66	65	75	82	84	80	78	83	81	81	80	78	76	75	74	72	71	73	71	64	58	54	51
800	67	64	63	73	79	81	77	75	81	79	79	78	76	74	73	71	70	68	70	67	60	54	49	44
1000	65	62	61	70	76	79	74	72	79<	77	77	75	74	72	70	69	67	65	67	64	56	49	42	35
1250	63	60	58	67	73	75	71	69	76	75	74	73	71	69	68	66	64	62	63	59	51	43	35	25
1600	61	57	54	63	70	72	67	65	73	73	72	71	69	67	65	63	61	58	59	54	46	36	26	13
2000	58	54	51	60	66	68	64	61	69	70	70	68	66	64	62	60	57	54	55	49	40	28	15	
2500	54	50	47	55	61	64	59	57	65	67	67	66	63	61	59	56	54	50	49	42	32	19	2	
3150	50	45	42	51	57	59	54	52	61	62	64	63	61	58	56	53	49	45	43	35	24	7		
4000	46	40	37	45	51	53	48	46	56	58	60	59	57	55	52	48	44	39	36	25	13			
5000	41	35	32	40	46	48	44	41	49	52	56	55	54	51	48	43	39	32	28	14	1			
6300	36	31	27	35	41	43	39	36	43	46	51	51	49	47	43	38	32	25	18	1				
8000	34	29	25	33	39	41	36	33	41	43	48	47	45	42	37	31	24	15	5					
10000	31	26	23	31	37	38	33	31	38	40	44	43	40	36	31	24	15	3						
12500	29	24	20	28	34	36	31	28	34	36	40	38	35	30	24	15	4							
16000	27	22	18	26	31	33	27	24	31	32	35	33	29	23	15	4								
20000	25	19	15	23	28	30	24	20	26	27	30	26	21	14	4									
25000	22	17	13	20	25	26	20	16	22	22	23	19	12	3										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
FB-111

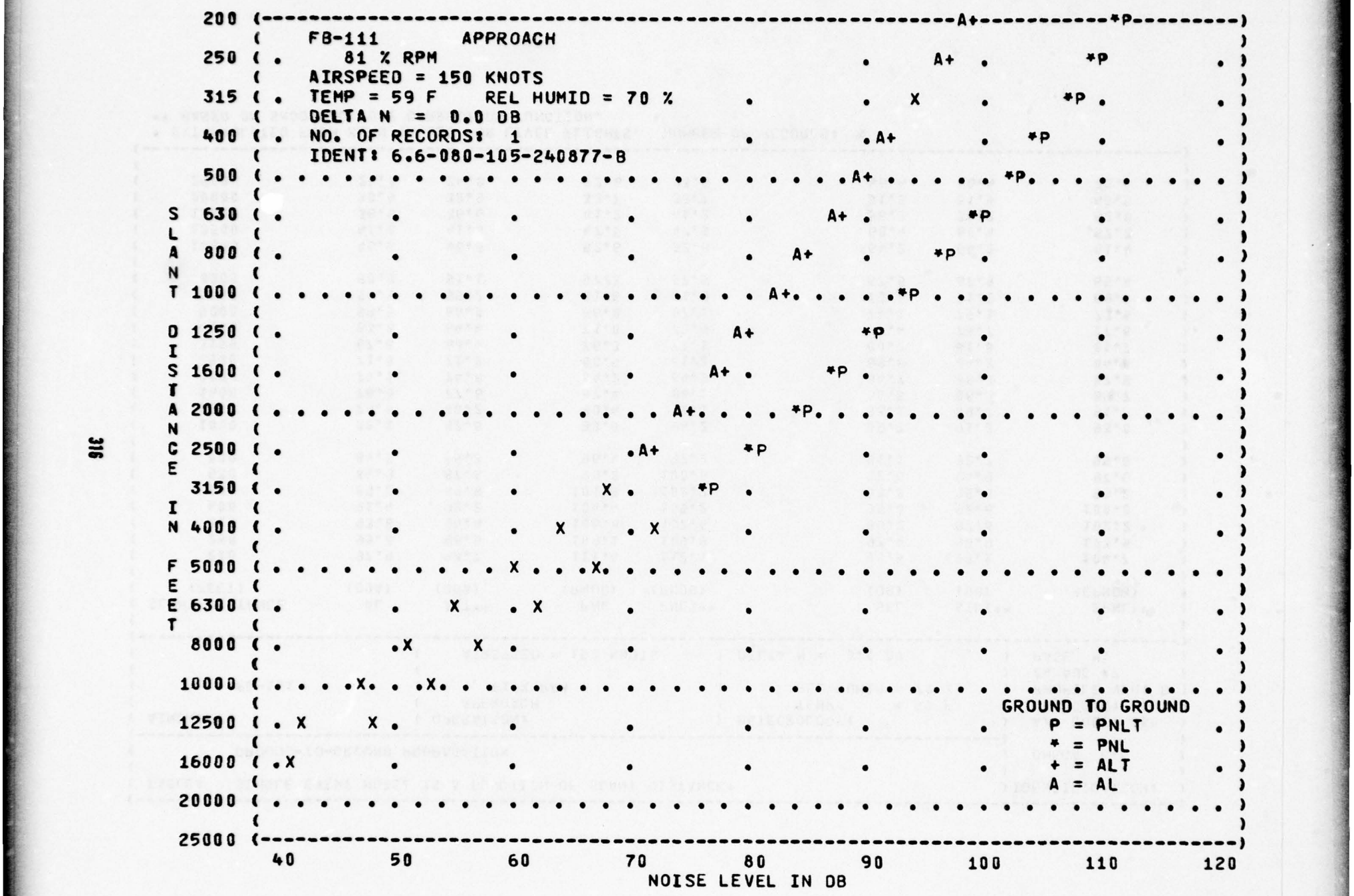
OPERATION:
APPROACH
81 % RPM
AIRSPEED = 150 KNOTS

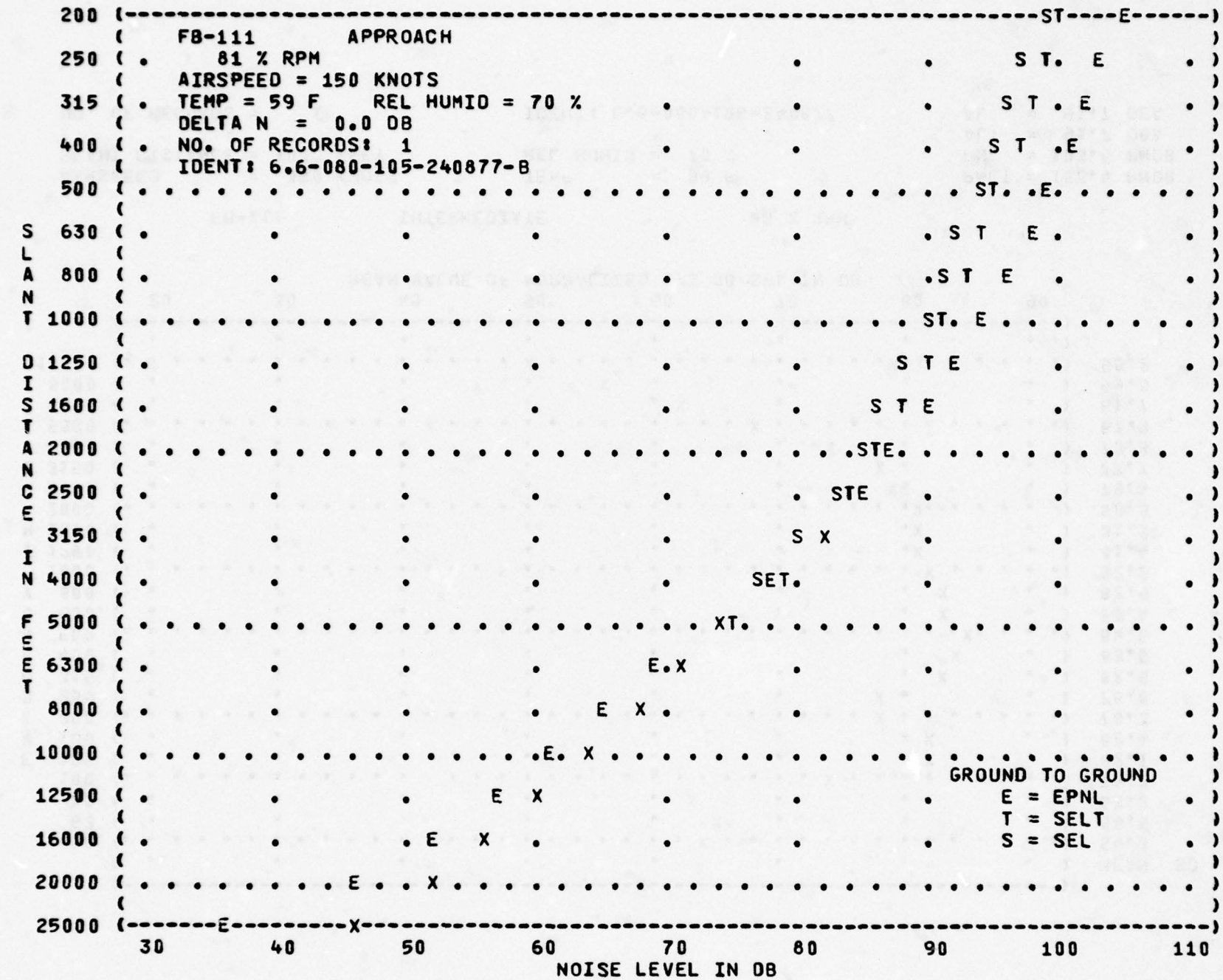
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

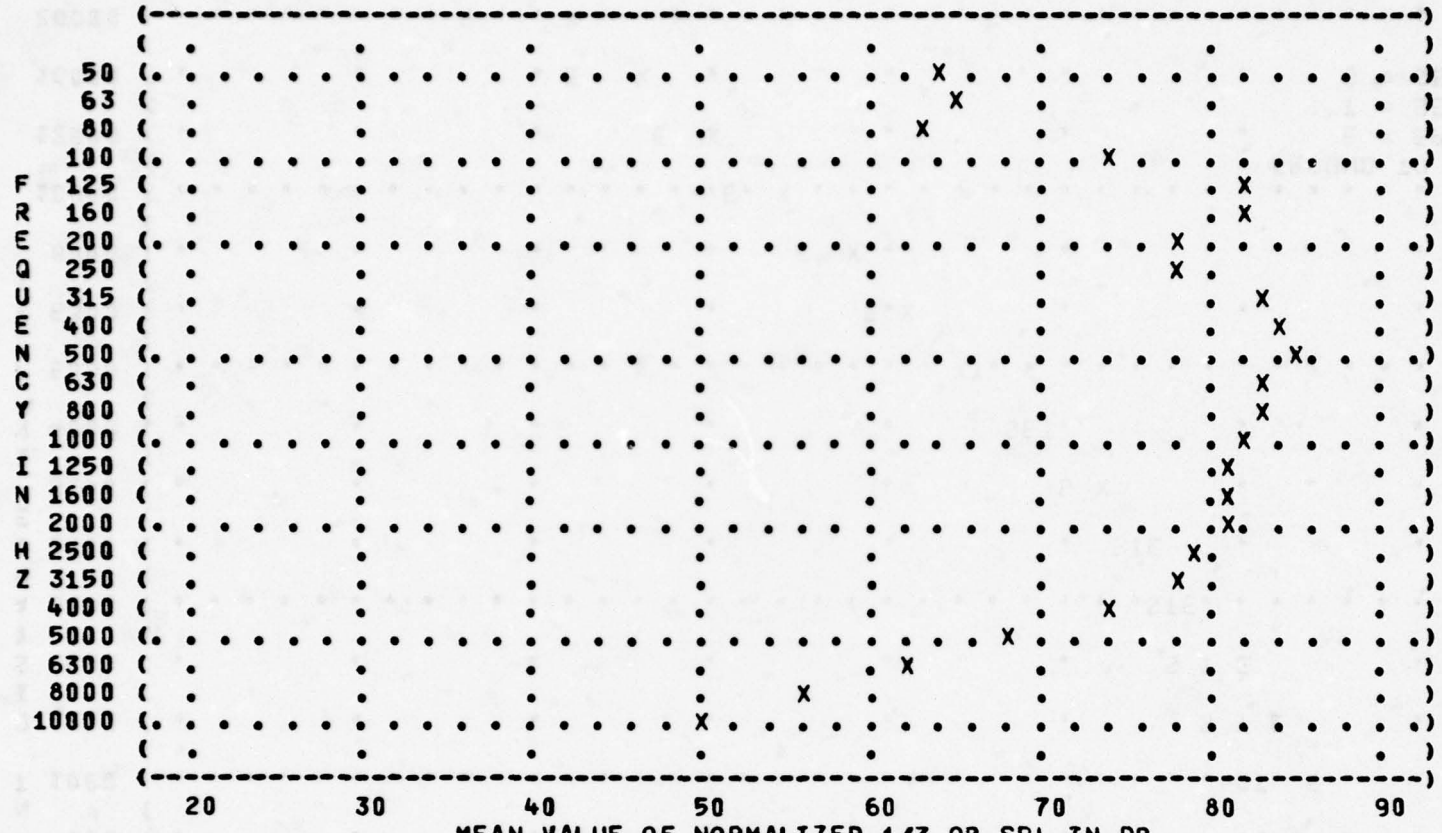
A/C CODE: 080
OPS CODE: 105
PROFILE VER: B
24 AUG 77
PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	97.9	98.7	111.4	112.1	98.5	100.1	104.7
250	95.8	96.5	109.1	109.9	97.4	98.9	103.5
315	93.6	94.4	106.8	107.6	96.2	97.8	102.2
400	91.4	92.2	104.4	105.2	95.0	96.6	100.8
500	89.2	89.9	101.9	102.7	93.8	95.3	99.2
630	86.9	87.6	99.2	100.0	92.5	94.0	97.6
800	84.5	85.3	96.4	97.2	91.1	92.7	95.8
1000	82.1	82.8	93.5	94.2	89.7	91.2	93.8
1250	79.5	80.2	90.4	91.1	88.1	89.7	91.7
1600	76.8	77.6	87.4	88.1	86.5	88.0	89.7
2000	74.1	74.8	84.2	84.9	84.7	86.3	87.5
2500	71.0	71.8	80.5	81.2	82.6	84.2	84.8
3150	67.6	68.4	76.3	77.1	80.2	81.8	81.7
4000	63.8	64.4	71.8	72.4	77.4	78.7	77.8
5000	59.5	60.0	66.8	67.3	74.1	75.1	73.5
6300	54.9	55.2	61.6	61.9	70.6	71.2	69.0
8000	50.9	51.1	57.3	57.5	67.5	67.9	65.4
10000	46.5	46.5	52.6	52.6	64.2	64.2	61.4
12500	41.8	41.8	47.5	47.5	60.4	60.4	57.3
16000	36.6	36.6	41.2	41.2	56.2	56.2	52.0
20000	30.9	30.9	33.7	33.7	51.5	51.5	45.5
25000	24.8	24.8	23.6	23.6	46.4	46.4	36.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


FB-111 APPROACH
81 % RPM
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-080-105-240877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


F8-111 APPROACH
81 % RPM
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-080-105-240877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



F8-111 INTERMEDIATE 86 % RPM

AIRSPEED = 350 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-080-106-240877

PNLT = 103.4 PNDB
PNL = 103.4 PNDB
ALT = 91.7 DBA
AL = 91.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

AIRCRAFT: FB-111

OPERATION: INTERMEDIATE, 86 % RPM, AIRSPEED = 350 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

IDENTIFICATION: OMEGA 6.6, A/C CODE: 080, OPS CODE: 106, PROFILE VER: B, 24 AUG 77, PAGE H2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	78	79	77	88	96	97	93	92	97	98	99	98	98	98	97	98	98	97	97	95	90	88	87	89
250	76	77	75	86	94	95	91	90	95	96	97	96	96	95	95	95	95	95	94	92	88	85	84	86
315	74	75	73	84	92	93	89	88	93	94	95	94	94	93	93	93	93	93	92	90	85	82	81	82
400	72	73	71	82	90	91	87	86	91	92	93	92	92	91	91	91	91	90	90	87	82	79	77	77
500	70	71	69	80	88	89	84	84	89	90	91	90	90	89	88	89	89	88	87	84	79	75	73	72
630	68	69	67	78	86	86	82	82	87	88	89	88	87	87	86	86	86	85	84	81	76	71	68	66
800	66	67	65	76	84	84	80	80	85	86	87	86	85	85	84	84	84	82	81	78	72	67	62	59
1000	64	65	63	74	82	82	78	78	83	84	85	83	83	82	81	81	81	79	78	74	68	62	56	50
1250	62	62	61	72	80	80	76	76	81	81	82	81	81	80	79	79	78	76	74	70	63	56	48	40
1600	60	60	59	70	78	78	74	74	79	79	80	79	78	77	76	76	75	73	70	65	58	49	39	28
2000	58	58	57	68	76	76	72	72	76	77	78	76	76	75	73	73	71	69	65	59	51	41	28	13
2500	56	56	55	66	74	74	70	69	74	74	75	74	73	72	70	69	67	64	60	52	44	31	15	
3150	54	54	53	64	72	72	68	67	72	72	73	71	70	69	67	65	63	59	54	45	35	20		
4000	52	52	51	62	69	70	65	65	69	69	70	68	67	65	63	61	58	53	47	35	25	6		
5000	50	50	49	60	67	67	63	62	67	67	67	65	63	61	59	56	53	47	38	24	12			
6300	48	48	47	57	65	65	61	60	64	64	64	62	60	57	54	51	46	39	28	11				
8000	46	46	44	55	63	63	58	57	61	61	61	58	55	52	48	44	38	29	16					
10000	44	44	42	53	60	60	55	54	58	57	57	54	51	47	42	36	29	17	1					
12500	41	41	40	50	58	57	52	51	55	54	53	49	45	40	35	27	18	3						
16000	39	39	37	48	55	54	49	48	51	50	48	44	39	33	26	16	4							
20000	37	37	35	45	52	51	46	44	47	45	43	37	31	24	15	3								
25000	34	34	32	42	49	48	42	40	42	39	36	30	22	13	2									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: FB-111

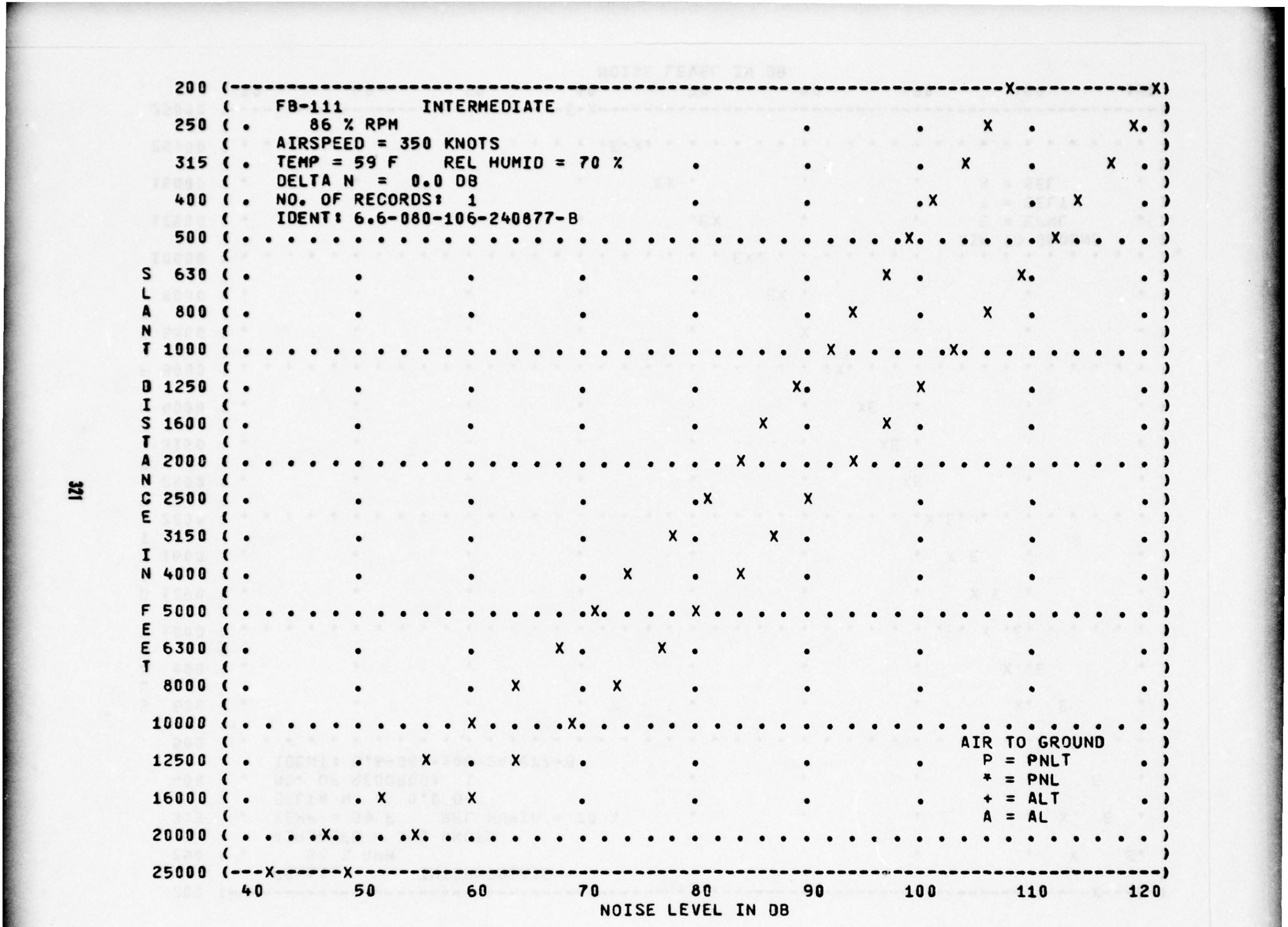
OPERATION:
INTERMEDIATE
86 % RPM
AIRSPEED = 350 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 080
OPS CODE: 106
PROFILE VER: B
24 AUG 77
PAGE I2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	108.0	108.0	121.2	121.2	105.7	105.7	109.9
250	105.9	105.9	118.9	118.9	104.5	104.5	108.6
315	103.6	103.6	116.6	116.6	103.2	103.2	107.3
400	101.4	101.4	114.1	114.1	102.0	102.0	105.8
500	99.0	99.0	111.6	111.6	100.7	100.7	104.3
630	96.7	96.7	109.0	109.0	99.3	99.3	102.6
800	94.2	94.2	106.3	106.3	97.8	97.8	100.9
1000	91.7	91.7	103.4	103.4	96.3	96.3	99.1
1250	89.1	89.1	100.4	100.4	94.7	94.7	97.1
1600	86.4	86.4	97.2	97.2	93.0	93.0	94.9
2000	83.6	83.6	93.9	93.9	91.2	91.2	92.6
2500	80.6	80.6	90.4	90.4	89.3	89.3	90.1
3150	77.6	77.6	87.2	87.2	87.2	87.2	87.9
4000	74.4	74.4	83.9	83.9	85.1	85.1	85.5
5000	71.1	71.1	80.3	80.3	82.7	82.7	83.0
6300	67.6	67.6	76.6	76.6	80.3	80.3	80.3
8000	64.0	64.0	72.8	72.8	77.6	77.6	77.5
10000	60.1	60.1	68.7	68.7	74.8	74.8	74.4
12500	56.0	56.0	64.4	64.4	71.7	71.7	71.1
16000	51.7	51.7	59.7	59.7	68.3	68.3	67.4
20000	47.1	47.1	54.7	54.7	64.7	64.7	63.4
25000	42.3	42.3	49.3	49.3	60.9	60.9	59.0

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


FB-111 INTERMEDIATE
86 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-080-106-240877-B
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

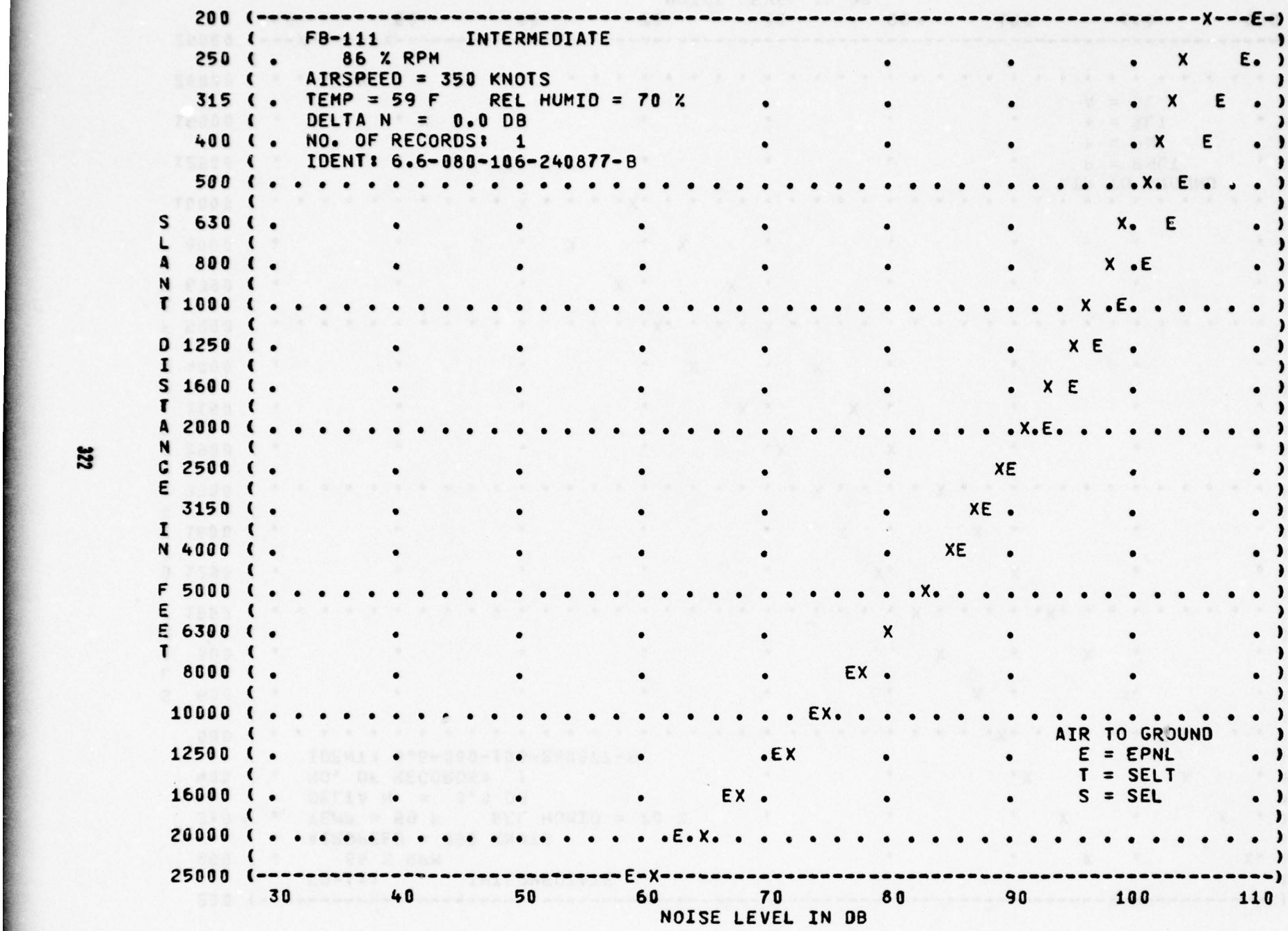

FB-111 INTERMEDIATE
86 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-080-106-240877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: FB-111

OPERATION:
INTERMEDIATE
86 % RPM
AIRSPEED = 350 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 080
OPS CODE: 106
PROFILE VER: B
24 AUG 77
PAGE L2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	73	74	72	83	91	92	88	87	92	93	94	93	93	93	92	93	93	92	92	90	85	83	82	84
250	71	72	70	81	89	90	86	85	90	91	92	91	91	90	90	90	90	90	89	87	83	80	79	81
315	69	70	68	79	87	88	84	83	88	89	90	89	89	88	88	88	88	88	87	85	80	77	76	77
400	67	68	66	77	85	85	81	81	86	87	88	87	87	86	86	86	86	85	85	82	77	74	72	72
500	65	66	64	75	83	83	79	79	84	85	86	85	85	84	83	84	84	83	82	79	74	70	68	67
630	63	64	62	73	80	80	76	76	82	83	84	83	82	82	81	81	81	80	79	76	71	66	63	61
800	61	62	60	71	78	78	73	74	80	81	82	81	80	80	79	79	79	77	76	73	67	62	57	54
1000	59	60	58	68	75<	75	71	71	78	79	80	78	78	77	76	76	76	74	73	69	63	57	51	45
1250	57	57	55	65	72	71	67	68	75	76	77	76	76	75	74	74	73	71	69	65	58	51	43	35
1600	55	54	52	61	68	68	64	64	71	74	75	74	73	72	71	71	70	68	65	60	53	44	34	23
2000	52	51	48	58	64	64	60	60	68	72	73	71	71	70	68	68	66	64	60	54	46	36	23	8
2500	49	47	44	53	60	60	56	56	64	68	70	69	68	67	65	64	62	59	55	47	39	26	10	
3150	45	42	39	48	55	55	51	51	59	64	67	66	65	64	62	60	58	54	49	40	30	15		
4000	40	37	34	43	50	49	45	45	54	59	63	63	62	60	58	56	53	48	42	30	20	1		
5000	35	33	29	38	45	44	40	40	48	54	59	58	58	56	54	51	48	42	33	19	7			
6300	30	28	25	33	40	39	35	35	42	48	54	54	54	52	49	46	41	34	23	6				
8000	26	26	22	31	38	37	32	32	39	45	51	50	49	47	43	39	33	24	11					
10000	26	24	20	29	35	34	30	29	36	41	47	46	45	42	37	31	24	12						
12500	23	21	18	26	33	32	27	26	33	38	43	41	39	35	30	22	13							
16000	21	19	15	24	30	29	24	23	29	34	38	36	33	28	21	11								
20000	19	17	13	21	27	26	20	19	25	29	33	29	25	19	10									
25000	16	14	10	18	24	22	17	15	20	23	26	22	16	8										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
FB-111

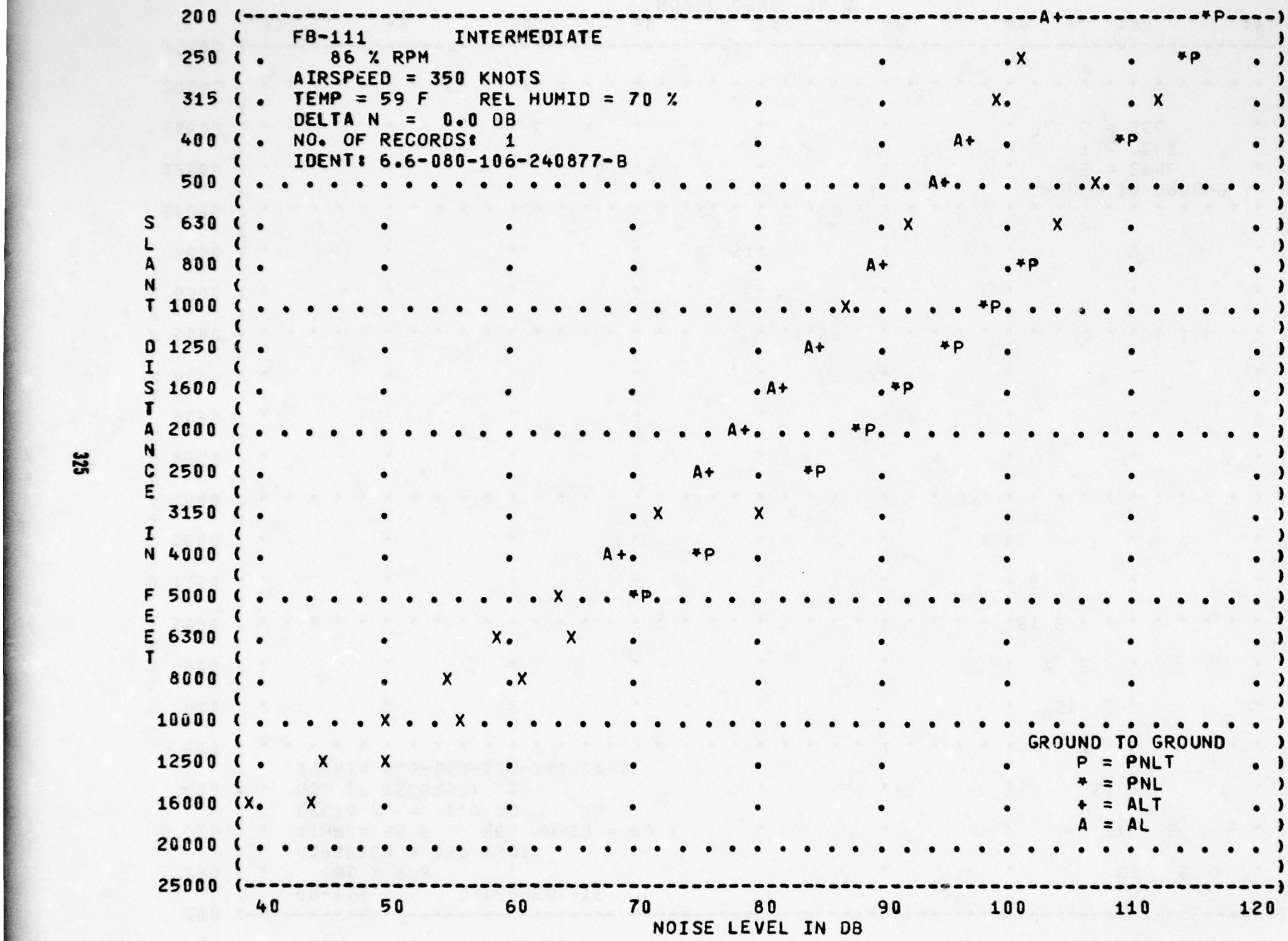
OPERATION:
INTERMEDIATE
86 % RPM
AIRSPEED = 350 KNOTS

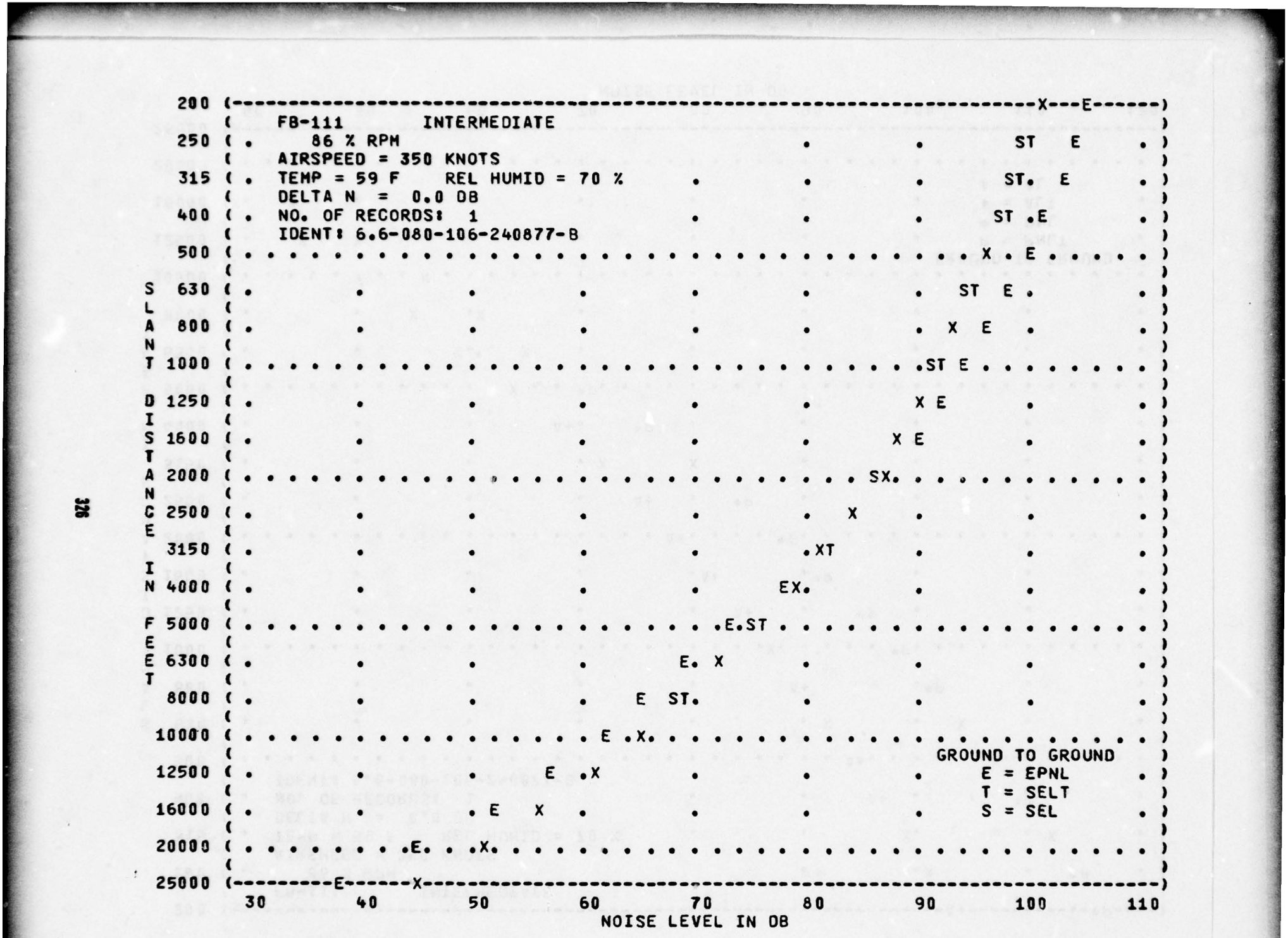
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 080
OPS CODE: 106
PROFILE VER: B
24 AUG 77
PAGE M2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	103.0	103.6	116.2	116.8	100.7	101.3	105.5
250	100.9	101.4	113.9	114.5	99.5	100.1	104.2
315	98.6	99.2	111.6	112.1	98.2	98.8	102.8
400	96.4	96.9	109.1	109.7	97.0	97.6	101.4
500	94.0	94.6	106.5	107.1	95.7	96.2	99.8
630	91.6	92.2	103.9	104.5	94.3	94.9	98.1
800	89.2	89.8	101.1	101.7	92.8	93.4	96.4
1000	86.6	87.2	98.1	98.7	91.3	91.9	94.4
1250	84.0	84.6	94.9	95.5	89.6	90.2	92.2
1600	81.2	81.8	91.5	92.1	87.8	88.4	89.8
2000	78.4	78.9	87.9	88.5	86.0	86.6	87.2
2500	75.2	75.8	84.0	84.6	83.9	84.4	84.3
3150	71.8	72.4	79.9	80.5	81.4	82.0	81.1
4000	68.0	68.5	75.3	75.8	78.7	79.1	77.5
5000	63.8	64.1	70.4	70.7	75.4	75.7	73.4
6300	59.1	59.4	65.1	65.3	71.7	72.0	69.0
8000	54.8	54.9	60.7	60.8	68.4	68.5	65.5
10000	50.1	50.1	55.8	55.8	64.7	64.7	61.5
12500	45.0	45.0	50.5	50.5	60.6	60.6	57.1
16000	39.4	39.4	43.9	43.9	56.0	56.0	51.6
20000	33.3	33.3	36.3	36.3	50.9	50.9	45.0
25000	26.5	26.5	27.8	27.8	45.2	45.2	37.5

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


FB-111 INTERMEDIATE
86 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-080-106-240877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


FB-111 INTERMEDIATE
86 % RPM
AIRSPEED = 350 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-080-106-240877-B
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

NOISE PRODUCED ON THE GROUND BY

FB-111A AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-004-024
AIRCRAFT CODE: 080
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING	PAGE
IDLE 66% RPM	328 - 333
80% RPM	334 - 339
MIL PWR 96% RPM	340 - 345
AFTERBURNER	346 - 351

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
- NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
- PERCEIVED NOISE LEVEL
- TONE-CORRECTED, PERCEIVED NOISE LEVEL
- A-WEIGHTED OVERALL SOUND LEVEL
- TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

A E R O S P A C E M E D I C A L R E S E A R C H L A B O R A T O R Y
W R I G H T - P A T T E R S O N A I R F O R C E B A S E , O H I O

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 01

NOISE SOURCE/SUBJECT:
FB-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
IDLE, 66% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

AIRCRAFT CODE 080
OPERATION CODE 02013
PROFILE VERSION A
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BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	63	63	64	65	64	64	66	66	67	65	63	65	66	65	65	64	64	57	55<
63	64	63	65	67	68	66	68	67	65	66	67	66	67	67	68	68	66	58	55
80	65	66	69	70	72	73	71	68	69	68	71	73	72	75	74	74	71	62	59
100	64	65	67	69	69	70	67	66	65	69	71	72	72	72	73	73	69	61	60
125	65	63	65	66	65	64	62	65	68	69	70	71	71	70	69	70	68	60<	66
160	65	64	65	66<	63	64	68	68	68	69	69	71	72	72	71	70	71	60<	64
200	66	67	67	67<	66	66	65	65	65	66	69	70	70	71	70	67	71	59	64
250	69	69	67<	67<	67<	68	66	67	67	67	69	69	68	69	71	67	71	58<	67
315	67	68	68<	67	67	68	67	67	65	65	66	68	68	70	69	68	68	57	60
400	69	69	68	69	67	70	67	66	63	62	65	66	65	67	68	66	63	57	55<
500	69	69	69	70	72	70	66	64	64	60	63	62	64	68	67	63	61	58	50
630	69	68	69	69	70	69	64	62	62	58	59	60	63	65	66	62	59	55	49<
800	71	69	69	68	67	66	63	61	59	57	55	58	61	63	65	60	59	52	48
1000	74	73	74	72	70	69	66	64	62	61	58	62	64	65	65	62	61	56	50
1250	77	75	75	73	72	70	67	65	63	62	59	65	66	66	65	63	62	58	52
1600	80	85	85	84	81	78	77	74	73	71	69	71	71	72	72	71	71	67	62
2000	94	92	91	91	87	84	84	79	77	75	73	75	74	76	76	74	75	71	66
2500	84	84	83	82	82	79	75	72	71	70	65	71	69	73	71	69	69	65	60
3150	85	86	84	83	82	79	74	73	70	69	68<	68	67	71	70	67	66	64	60
4000	89	89	89	89	88	85	81	79	75	73	71	73	74	75	74	72	71	68	63
5000	84	84	84	81	82	78	75	73	70	69	68	72	72	73	72	68	67	62	57
6300	82	81	80	78	78	76	72	71	69	68	68	71	71	73	73	67	65	60	52
8000	79	79	78	76	75	73	70	69	67	65	64	69	68	70	69	65	63	56	49
10000	74	73	72	70	70	67	65	64	63	61	59	64	63	64	63	59	58	52	46
OVERALL	97	96	95	95	93	90	88	85	83	82	82	84	83	85	84	83	82	76	75

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 01
AIRCRAFT CODE 080
OPERATION CODE 02013
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PAGE D1

NOISE SOURCE/SUBJECT:
FB-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
IDLE, 66% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	112.9	111.5	111.5	110.6	109.5	107.0	103.8	101.6	99.1	97.7	96.4	98.7	98.8	100.3	99.7	97.1	96.7	92.0	87.9
250	110.7	109.1	109.1	108.2	107.2	104.7	101.6	99.3	96.7	95.3	94.1	96.4	96.4	98.0	97.3	94.8	94.4	89.7	85.6
315	108.4	106.7	106.6	105.8	104.7	102.2	99.3	96.8	94.3	92.9	91.6	93.9	94.0	95.5	94.9	92.3	92.1	87.2	83.1
400	106.0	104.3	104.1	103.5	102.1	99.7	96.9	94.3	91.8	90.3	89.1	91.4	91.4	93.0	92.4	89.9	89.7	84.7	80.7
500	103.5	101.8	101.4	101.0	99.4	97.0	94.4	91.6	89.2	87.7	86.4	88.7	88.7	90.3	89.7	87.4	87.3	82.2	78.1
630	100.9	99.2	98.8	98.4	96.6	94.1	91.8	88.7	86.6	85.1	83.7	85.8	85.8	87.5	87.1	84.7	84.6	79.6	75.5
800	98.2	96.5	96.0	95.7	93.5	91.0	89.1	85.7	83.6	82.3	81.0	83.0	82.9	84.7	84.3	82.0	81.9	76.8	72.8
1000	95.4	93.6	93.1	92.8	90.2	87.7	86.2	82.8	80.9	79.4	78.0	80.0	79.9	81.8	81.4	79.1	79.0	73.9	69.9
1250	92.3	90.4	90.0	89.7	86.9	84.6	83.1	79.6	77.8	76.2	74.8	76.8	76.7	78.6	78.2	75.9	75.9	70.7	66.7
1600	89.0	87.1	86.6	86.4	83.5	81.2	79.8	76.3	74.4	72.8	71.4	73.4	73.3	75.2	74.8	72.6	72.5	67.3	63.3
2000	85.4	83.5	83.1	82.8	79.9	77.6	76.2	72.6	70.7	69.1	67.6	69.6	69.6	71.5	71.1	68.8	68.9	63.7	59.5
2500	81.6	79.5	79.1	78.9	75.9	73.6	72.2	68.6	66.7	65.0	63.5	65.5	65.5	67.4	67.1	64.8	64.8	59.6	55.3
3150	77.3	75.2	74.7	74.6	71.5	69.2	67.8	64.1	62.1	60.4	58.8	60.9	60.9	62.9	62.6	60.2	60.2	55.0	50.6
4000	72.5	70.3	69.8	69.7	66.5	64.2	62.9	59.1	57.1	55.2	53.4	55.5	55.6	57.7	57.4	55.0	55.0	49.7	44.4
5000	67.1	64.9	64.4	64.3	61.0	58.6	57.3	53.3	51.3	49.3	47.4	49.6	49.8	51.8	51.6	48.9	49.3	43.5	37.2
6300	60.9	58.6	58.2	58.0	54.7	52.3	51.0	48.8	44.4	41.8	39.6	42.1	42.4	44.9	44.7	41.7	41.8	34.8	26.3
8000	54.0	51.5	51.1	51.0	47.6	45.0	43.4	38.2	35.8	33.1	29.8	33.3	33.9	36.9	36.7	32.8	32.9	23.5	13.9
10000	45.9	43.0	42.5	42.4	38.3	35.4	33.3	27.5	22.5	17.7	15.9	19.0	22.5	27.2	26.8	18.7	17.2	12.2	1.5
12500	34.4	31.2	30.5	30.7	27.5	23.4	17.1	7.3	6.8	2.4	2.1	4.8	6.8	14.5	13.6	4.6	1.6	.9	
16000	17.5	9.6	9.5	8.8	15.2	8.8	1.0							1.8	.4				
20000	.6				2.8														
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 01

NOISE SOURCE/SUBJECT:
F8-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
IDLE, 66% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -3.0 DB

AIRCRAFT CODE 080
OPERATION CODE 02013
PROFILE VERSION A
31 MAR 76
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DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	116.0	113.9	114.0	113.6	111.5	109.2	106.6	103.9	101.2	99.5	98.7	100.0	100.3	101.6	101.5	98.8	98.6	93.8	89.8
250	113.7	111.6	111.6	111.3	109.1	106.8	104.4	101.6	98.9	97.2	96.4	97.6	97.9	99.3	99.1	96.5	96.4	91.5	87.5
315	111.4	109.1	109.2	108.9	106.7	104.4	102.1	99.1	96.4	94.7	93.9	95.2	95.5	96.8	96.7	94.0	94.1	89.0	85.0
400	109.0	106.7	106.6	106.5	104.1	101.8	99.7	96.6	93.9	92.2	91.4	92.6	92.9	94.3	94.1	91.5	91.7	86.5	82.6
500	106.6	104.3	103.9	104.0	101.4	99.1	97.2	93.9	91.4	89.6	88.7	89.9	90.2	91.6	91.5	89.0	89.2	84.0	80.0
630	104.0	101.7	101.3	101.4	98.6	96.2	94.6	91.0	88.7	86.9	86.0	87.0	87.3	88.8	88.8	86.4	86.6	81.4	77.4
800	101.3	98.9	98.8	98.7	95.5	93.2	91.3	88.0	86.0	84.2	83.2	84.2	84.4	86.0	86.1	83.7	83.8	78.6	74.7
1000	98.4	96.0	95.6	95.8	92.1	89.8	89.0	85.1	83.1	81.2	80.3	81.3	81.4	83.1	83.1	80.7	80.9	75.7	71.8
1250	95.3	92.9	92.5	92.7	88.9	86.7	85.9	82.0	79.9	78.1	77.1	78.1	78.2	79.9	80.0	77.6	77.8	72.6	68.5
1600	92.0	89.5	89.2	89.4	85.5	83.3	82.6	78.6	76.5	74.7	73.7	74.6	74.8	76.5	76.6	74.2	74.5	69.2	65.1
2000	88.5	85.9	85.6	85.9	81.9	79.7	79.0	74.9	72.8	70.9	69.9	70.9	71.1	72.8	72.9	70.5	70.8	65.5	61.4
2500	84.6	82.0	81.6	81.9	77.9	75.7	75.0	70.9	68.8	66.9	65.8	66.7	67.0	68.7	68.8	66.4	66.8	61.4	57.2
3150	80.3	77.6	77.3	77.6	73.5	71.3	70.6	66.4	64.2	62.2	61.1	62.1	62.4	64.2	64.3	61.8	62.2	56.8	52.5
4000	74.9	72.3	71.9	72.1	68.1	65.9	65.1	60.9	58.8	56.7	55.3	56.5	56.8	58.8	58.8	56.3	56.6	51.2	45.9
5000	68.9	66.3	65.9	66.1	62.2	59.9	59.0	54.7	52.6	50.4	48.7	50.3	50.7	52.6	52.6	50.0	50.5	44.6	38.3
6300	62.2	59.6	59.2	59.2	55.5	53.1	52.1	47.7	45.2	42.6	40.5	42.6	43.0	45.4	45.4	42.3	42.6	35.5	27.0
8000	54.6	52.0	51.6	51.6	48.0	45.4	44.0	38.7	36.2	33.4	30.3	33.5	34.2	37.2	37.0	33.2	33.3	23.8	14.3
10000	45.9	43.0	42.5	42.4	38.3	35.4	33.3	27.5	22.5	17.7	15.9	19.0	22.5	27.2	26.8	18.7	17.2	12.2	1.5
12500	34.4	31.2	30.5	30.7	27.5	23.4	17.1	7.3	0.8	2.4	2.1	4.8	6.8	14.5	13.6	4.6	1.6	.9	
16000	17.5	9.8	9.5	8.8	15.2	8.8	1.0							1.8	.4				
20000	.6				2.8														
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
FB-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
IDLE, 66% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 01
AIRCRAFT CODE 080
OPERATION CODE 02013
PROFILE VERSION A
31 MAR 76
PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	100.6	99.0	98.6	98.1	95.8	93.0	90.8	87.6	85.5	83.6	81.9	84.2	84.1	86.0	85.3	82.7	82.6	78.5	73.9
250	98.3	96.8	96.4	95.8	93.5	90.7	88.5	85.3	83.0	81.3	79.6	81.9	81.8	83.6	83.0	80.4	80.4	76.3	71.7
315	96.0	94.4	94.0	93.5	91.1	88.4	86.2	82.9	80.7	79.0	77.2	79.5	79.4	81.3	80.6	78.1	78.1	74.0	69.4
400	93.7	92.0	91.6	91.1	88.7	85.9	83.9	80.5	78.3	76.6	74.8	77.1	76.9	78.8	78.2	75.7	75.7	71.6	67.1
500	91.3	89.5	89.1	88.7	86.2	83.4	81.4	78.0	75.8	74.1	72.3	74.5	74.4	76.3	75.7	73.3	73.3	69.2	64.7
630	88.8	87.0	86.5	86.1	83.5	80.8	78.8	75.4	73.2	71.5	69.7	71.9	71.7	73.5	73.1	70.7	70.8	66.6	62.1
800	86.1	84.3	83.8	83.4	80.7	78.0	76.2	72.7	70.5	68.8	67.0	69.1	69.0	70.9	70.3	68.1	68.2	64.0	59.5
1000	83.4	81.4	81.0	80.6	77.8	75.1	73.4	69.8	67.7	66.0	64.1	66.2	66.1	68.0	67.5	65.3	65.4	61.2	56.7
1250	80.5	78.4	78.0	77.6	74.7	72.0	70.4	66.8	64.8	63.0	61.1	63.2	63.1	65.0	64.6	62.4	62.6	58.2	53.8
1600	77.4	75.2	74.8	74.5	71.3	68.7	67.3	63.5	61.6	59.8	58.0	60.0	60.0	61.9	61.5	59.3	59.5	55.1	50.6
2000	74.1	71.8	71.3	71.1	67.8	65.2	64.0	60.2	58.3	56.5	54.6	56.6	56.7	58.6	58.2	56.0	56.2	51.8	47.3
2500	70.5	68.1	67.7	67.4	64.1	61.5	60.4	56.5	54.7	52.8	51.0	53.0	53.1	55.0	54.7	52.5	52.7	48.2	43.6
3150	66.6	64.1	63.7	63.4	60.0	57.4	56.4	52.5	50.8	48.9	47.1	49.1	49.4	51.2	51.0	48.6	48.9	44.3	39.6
4000	62.2	59.6	59.3	59.0	55.6	53.0	52.0	48.2	46.5	44.6	42.8	44.8	45.2	47.0	46.8	44.4	44.6	40.1	35.3
5000	57.3	54.7	54.4	54.1	50.6	48.2	47.2	43.4	41.7	39.8	38.0	40.1	40.7	42.4	42.3	39.8	39.9	35.3	30.5
6300	51.8	49.1	48.9	48.5	45.2	42.8	41.7	38.0	36.4	34.5	32.7	34.9	35.7	37.3	37.3	34.7	34.7	30.0	25.2
8000	45.5	42.9	42.7	42.2	39.4	37.1	35.7	32.3	30.8	28.8	27.5	29.6	30.7	32.3	32.4	29.5	29.2	24.4	19.7
10000	38.5	36.0	36.0	35.3	33.2	31.1	29.2	26.4	24.9	22.9	22.1	24.1	25.4	27.2	27.4	24.2	23.5	18.6	14.1
12500	30.9	28.7	28.8	28.0	27.0	25.2	22.6	20.3	19.0	16.9	17.0	18.6	20.1	22.0	22.3	18.8	17.8	12.5	8.8
16000	23.0	21.3	21.5	20.9	21.1	19.3	16.4	14.5	13.3	11.2	12.1	13.3	14.7	16.8	17.1	13.6	12.4	6.9	3.9
20000	15.5	14.2	14.4	14.1	15.1	13.5	10.4	8.8	7.8	5.8	7.2	8.2	9.3	11.4	11.6	8.4	7.2	1.2	
25000	8.1	7.3	7.4	7.5	8.8	7.3	4.3	3.0	2.1	.5	2.2	3.2	3.9	5.8	5.9	3.2	2.1		

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DbA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
FB-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
IDLE, 66% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 01
AIRCRAFT CODE 080
OPERATION CODE 02013
PROFILE VERSION A
31 MAR 76
PAGE G1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	103.6	101.5	101.2	101.1	97.8	95.2	93.6	89.9	87.4	85.4	84.2	85.5	85.6	87.3	87.1	84.4	84.5	80.4	75.8
250	101.4	99.2	98.9	98.8	95.5	92.9	91.3	87.6	85.1	83.2	81.9	83.2	83.3	85.0	84.8	82.1	82.3	78.1	73.6
315	99.1	96.9	96.8	96.5	93.1	90.5	89.0	85.3	82.6	80.8	79.5	80.8	80.9	82.6	82.4	79.8	80.0	75.8	71.3
400	96.7	94.5	94.2	94.2	90.7	88.1	86.7	82.8	80.4	78.4	77.1	78.3	78.4	80.1	80.0	77.4	77.7	73.4	69.0
500	94.3	92.0	91.7	91.7	88.1	85.5	84.2	80.3	77.9	75.9	74.6	75.8	75.9	77.6	77.4	75.0	75.3	71.0	66.6
630	91.6	89.4	89.1	89.1	85.5	82.9	81.6	77.7	75.3	73.4	72.0	73.1	73.2	74.9	74.8	72.4	72.7	68.5	64.0
800	89.2	86.7	86.4	86.4	82.7	80.1	79.0	75.0	72.7	70.7	69.2	70.4	70.5	72.2	72.1	69.7	70.1	65.8	61.4
1000	86.4	83.9	83.5	83.6	79.7	77.2	76.2	72.1	69.8	67.8	66.4	67.5	67.6	69.3	69.3	67.0	67.4	63.0	58.6
1250	83.5	80.9	80.5	80.7	76.6	74.1	73.2	69.1	66.9	64.8	63.4	64.4	64.6	66.3	66.3	64.0	64.5	60.1	55.7
1600	80.4	77.7	77.3	77.5	73.3	70.8	70.1	65.9	63.8	61.7	60.2	61.2	61.5	63.2	63.2	60.9	61.4	57.0	52.5
2000	77.1	74.2	73.9	74.1	69.8	67.3	66.8	62.5	60.4	58.3	56.9	57.9	58.2	59.9	60.0	57.7	58.2	53.6	49.2
2500	73.5	70.5	70.2	70.5	66.0	63.6	63.2	58.8	56.8	54.7	53.3	54.3	54.7	56.3	56.5	54.2	54.6	50.1	45.5
3150	69.6	66.5	66.2	66.5	62.0	59.6	59.2	54.9	52.9	50.7	49.4	50.3	50.9	52.5	52.7	50.3	50.8	46.2	41.5
4000	64.6	61.6	61.3	61.4	57.1	54.8	54.3	50.1	48.2	46.0	44.6	45.8	46.4	48.0	48.3	45.8	46.2	41.5	36.8
5000	59.1	56.2	55.9	55.9	51.8	49.5	48.8	44.8	43.0	40.9	39.3	40.8	41.6	43.2	43.3	40.8	41.1	36.4	31.6
6300	53.0	50.1	49.9	49.7	46.0	43.6	42.8	39.0	37.3	35.2	33.6	35.4	36.3	37.9	38.0	35.3	35.5	30.8	25.9
8000	46.1	43.4	43.3	42.8	39.7	37.5	36.2	32.8	31.2	29.2	27.9	29.8	31.0	32.6	32.8	29.8	29.6	24.8	20.1
10000	38.5	36.0	36.0	35.3	33.2	31.1	29.2	26.4	24.9	22.9	22.1	24.1	25.4	27.2	27.4	24.2	23.5	18.6	14.1
12500	30.9	28.7	28.8	28.0	27.0	25.2	22.6	20.3	19.0	16.9	17.0	18.6	20.1	22.0	22.3	18.8	17.8	12.6	8.8
16000	23.0	21.3	21.5	20.9	21.1	19.3	16.4	14.5	13.3	11.2	12.1	13.3	14.7	16.8	17.1	13.6	12.4	6.9	3.9
20000	15.5	14.2	14.4	14.1	15.1	13.5	10.4	8.8	7.8	5.8	7.2	8.2	9.3	11.4	11.6	8.4	7.2	1.2	
25000	8.1	7.3	7.4	7.5	8.8	7.3	4.3	3.0	2.1	.5	2.2	3.2	3.9	5.8	5.9	3.2	2.1		

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 01
AIRCRAFT CODE 080
OPERATION CODE 02013
PROFILE VERSION A
31 MAR 76
PAGE J1

NOISE SOURCE/SUBJECT:
FB-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
IDLE, 66% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

P=PNLT A=AL T=ALT

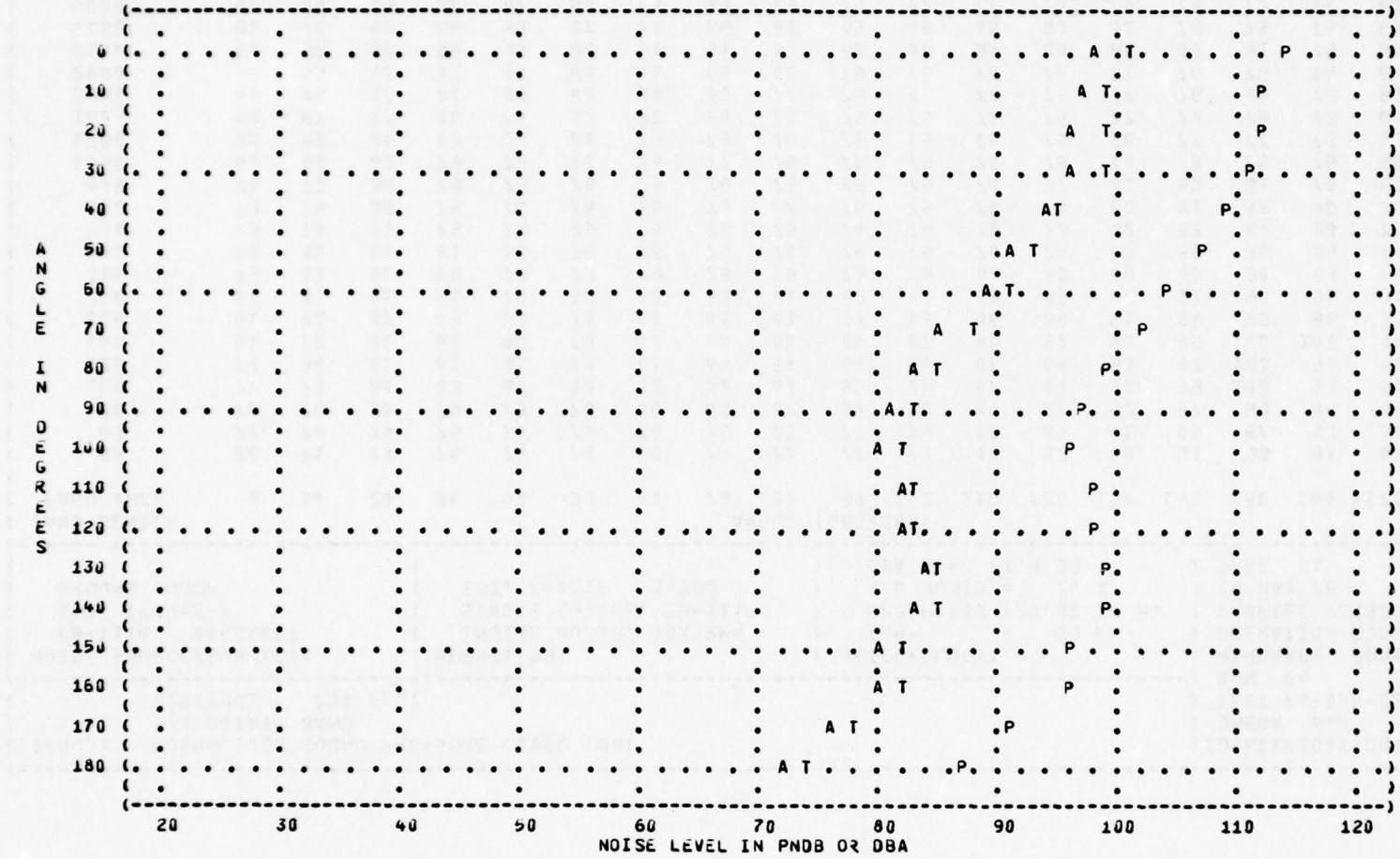


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 04
AIRCRAFT CODE 000
OPERATION CODE 02019
PROFILE VERSION A
20 MAY 76
PAGE C1

NOISE SOURCE/SUBJECT:
FB-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE, FB-111A
EST. F-111F -0.9DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.9 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	72	71	74	71	74	74	75	74	75	77	78	80	82	88	91	93	91	81	71
63	72	74	75	76	76	74	76	78	79	79	80	82	85	91	95	97	93	83	73
80	75	76	78	79	79	78	80	80	82	80	82	84	87	92	97	99	94	84	74
100	77	78	81	83	83	82	82	82	83	85	86	87	89	95	99	103	99	89	79
125	79	80	81	81	81	78	81	83	84	84	86	87	89	93	97	103	98	88	78
160	81	82	82	81	80	79	82	83	85	85	87	88	90	93	95	100	100	90	80
200	81	82	82	79	79	79	80	81	83	83	85	86	88	91	94	95	96	86	76
250	81	81	81	81	79	80	82	83	84	82	82	82	85	88	92	90	91	81	71
315	79	81	81	80	79	79	79	78	79	76	78	80	83	86	88	90	89	79	69
400	79	80	81	81	76	76	75	75	76	74	75	78	79	83	85	86	84	74	64
500	79	78	80	79	74	75	75	76	75	74	74	78	78	82	83	84	83	73	63
630	79	78	80	79	76	76	76	76	77	76	75	79	78	82	81	82	80	70	60
800	78	77	80	79	75	76	75	76	76	75	75	78	77	80	80	81	78	68	58
1000	80	80	82	79	78	77	76	77	76	75	75	77	76	79	78	78	75	65	55
1250	85	85	85	83	82	81	79	79	76	75	75	76	75	78	77	77	73	63	53
1600	88	87	87	86	84	83	82	80	78	75	75	76	75	77	76	76	73	63	53
2000	88	86	87	87	83	82	80	80	77	76	76	77	76	77	76	76	72	62	52
2500	95	93	93	92	90	88	86	86	82	79	78	78	76	77	76	76	74	64	54
3150	96	97	97	96	95	92	91	91	88	85	85	84	80	81	80	81	79	69	59
4000	91	90	90	89	89	87	85	86	83	83	85	85	83	83	79	78	76	66	56
5000	91	89	89	87	87	85	83	83	79	78	77	77	76	75	74	73	72	62	52
6300	90	88	88	87	87	84	83	84	80	79	78	77	76	75	74	73	73	63	53
8000	85	83	83	82	81	79	78	78	75	76	76	75	74	73	72	71	70	60	50
10000	80	80	79	78	77	75	74	74	70	73	73	71	69	70	68	67	66	56	46
OVERALL	102	101	101	100	99	97	96	96	95	94	95	96	97	101	105	108	105	95	85

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
FB-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE, FB-111A
EST. F-111F -0.908

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.9 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 04
AIRCRAFT CODE 080
OPERATION CODE 02019
PROFILE VERSION A
20 MAY 76
PAGE D1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	119.7	118.4	118.6	117.5	116.4	114.4	113.3	113.2	111.1	109.2	109.4	109.8	108.8	110.5	110.7	112.8	110.8	100.7	90.5
250	117.4	116.1	116.3	115.2	114.1	112.2	111.0	111.0	108.9	106.9	107.1	107.5	106.5	108.2	108.6	110.7	108.7	98.5	88.3
315	115.0	113.7	114.0	112.8	111.7	109.8	108.7	108.6	106.5	104.6	104.7	105.1	104.1	105.3	106.4	108.6	106.5	96.4	86.1
400	112.5	111.3	111.5	110.4	109.3	107.3	106.2	106.1	104.1	102.1	102.3	102.6	101.6	103.5	104.2	106.4	104.3	94.1	83.7
500	110.6	108.7	108.9	107.8	106.7	104.7	103.6	103.5	101.5	99.6	99.7	100.0	99.0	100.3	101.9	104.1	101.9	91.6	81.1
630	107.2	105.9	106.2	105.1	103.9	102.0	100.9	100.8	98.8	96.8	97.0	97.2	96.3	98.2	99.6	101.6	99.3	89.1	78.3
800	104.3	103.0	103.3	102.1	101.0	99.1	98.0	97.9	95.9	93.9	94.1	94.3	93.3	95.3	97.0	99.0	96.6	86.3	75.4
1000	101.2	99.9	100.2	99.0	97.9	96.0	94.9	94.8	92.8	90.8	91.0	91.2	90.1	92.4	94.1	96.2	93.7	83.3	72.3
1250	97.6	96.5	96.8	95.7	94.5	92.6	91.5	91.4	89.4	87.4	87.6	87.8	86.6	89.1	90.9	93.1	90.6	79.9	68.9
1600	94.1	92.8	93.1	92.0	90.7	88.8	87.8	87.6	85.7	83.7	83.9	84.2	83.0	85.5	87.4	89.7	87.1	76.3	65.2
2000	89.9	88.7	89.1	87.9	86.6	84.8	83.7	83.6	81.7	79.6	79.8	80.2	79.0	81.6	83.4	85.8	83.2	72.3	61.1
2500	85.4	84.2	84.5	83.4	82.0	80.2	79.1	79.0	77.2	75.1	75.3	75.7	74.6	77.3	78.8	81.2	78.7	67.8	56.3
3150	80.2	79.1	79.4	78.3	76.8	75.1	74.0	73.9	72.1	70.0	70.2	70.7	69.6	72.9	74.2	76.1	73.7	62.7	50.7
4000	74.9	73.5	73.9	72.9	70.9	69.2	68.1	68.0	66.2	64.1	64.3	65.0	64.6	68.2	69.3	70.7	68.4	57.4	44.8
5000	68.9	67.5	68.0	67.0	64.5	63.1	61.8	61.7	59.8	57.6	57.8	59.7	59.3	63.1	64.2	65.6	63.3	51.6	38.6
6300	62.1	60.8	61.3	60.3	57.8	56.6	55.7	55.8	53.4	51.4	51.6	54.1	53.7	57.5	58.8	60.2	57.8	45.5	29.2
8000	55.5	54.6	55.2	54.0	51.4	50.4	49.2	48.5	47.8	46.1	46.1	49.1	48.6	53.2	54.6	56.2	53.7	40.4	22.5
10000	48.3	47.4	48.1	46.3	43.2	42.2	41.6	41.7	41.8	40.0	40.0	43.5	43.1	48.1	50.0	51.9	49.1	35.3	12.4
12500	39.5	38.7	40.5	39.0	34.7	34.8	33.9	34.1	35.0	32.7	32.8	37.2	37.2	42.7	45.0	46.9	44.0	29.7	2.4
16000	31.5	30.8	33.0	31.3	24.6	25.2	24.1	<5.8	26.3	21.7	21.9	29.8	30.3	36.5	39.2	41.5	38.6	20.1	
20000	19.5	18.3	22.6	20.6	9.4	11.1	10.6	12.6	12.0	9.4	6.9	17.8	19.2	29.5	32.8	35.6	32.3	10.5	
25000	7.6	5.8	8.5	10.0								5.7	8.0	13.1	22.8	29.4	25.4	.9	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
FB-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE, FB-111A
EST. F-111F -0.9DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.9 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 04
AIRCRAFT CODE 080
OPERATION CODE 02019
PROFILE VERSION A
20 MAY 76
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	121.7	120.4	120.5	119.3	118.4	116.2	115.2	115.0	112.9	110.5	110.6	111.4	110.3	111.8	110.7	114.0	112.0	101.9	91.7
250	119.4	118.1	118.2	117.0	116.1	113.9	112.9	112.7	110.6	108.2	108.3	109.1	108.0	109.6	108.6	111.9	109.9	99.8	89.5
315	117.0	115.7	115.8	114.7	113.7	111.5	110.5	110.3	108.3	105.9	105.9	106.7	105.6	107.2	106.4	109.8	107.8	97.6	87.3
400	114.6	113.3	113.4	112.2	111.2	109.1	108.1	107.9	105.9	103.4	103.5	104.2	103.1	104.8	104.2	107.6	105.5	95.3	84.9
500	112.0	110.7	110.8	109.6	108.6	106.5	105.5	105.3	103.3	100.9	100.9	101.6	100.5	102.5	101.9	105.3	103.1	92.9	82.3
630	109.2	108.0	108.1	106.9	105.9	103.8	102.8	102.5	100.0	98.1	98.2	98.8	97.8	99.5	99.6	102.8	100.6	90.3	79.6
800	106.3	105.0	105.2	104.0	103.0	100.9	99.9	99.6	97.7	95.2	95.3	95.8	94.8	96.7	97.0	100.2	97.8	87.5	76.7
1000	103.2	101.9	102.0	100.9	99.8	97.7	96.7	96.5	94.6	92.1	92.2	92.8	91.6	93.7	94.1	97.4	95.0	84.5	73.6
1250	99.8	98.5	98.7	97.5	96.4	94.3	93.4	93.1	91.2	88.7	88.8	89.4	88.1	90.5	90.9	94.2	91.8	81.2	70.2
1600	96.1	94.8	95.0	93.8	92.7	90.6	89.6	89.4	87.5	85.0	85.1	85.7	84.5	86.9	87.4	90.8	88.4	77.5	66.5
2000	92.0	90.7	90.9	89.8	88.6	86.5	85.6	85.3	83.5	80.9	81.0	81.8	80.5	83.0	83.4	87.0	84.5	73.5	62.3
2500	87.4	86.2	86.4	85.2	84.0	82.0	81.0	80.7	79.0	76.4	76.5	77.3	76.1	78.6	78.8	82.4	80.0	69.0	57.5
3150	82.2	81.1	81.3	80.1	78.8	76.8	75.9	75.6	73.9	71.3	71.4	72.3	71.1	74.3	74.2	77.2	75.0	63.9	51.9
4000	76.5	75.1	75.4	74.4	72.5	70.6	69.6	69.4	67.6	65.1	65.3	66.2	65.8	69.3	69.3	71.6	69.4	58.4	45.8
5000	70.1	68.7	69.1	68.1	65.7	64.2	62.9	62.8	60.8	58.4	58.6	60.6	60.2	63.9	64.2	66.3	64.0	52.3	39.3
6300	62.9	61.6	62.1	61.0	58.5	57.3	56.4	55.7	54.2	52.0	52.1	54.7	54.3	58.2	58.8	60.7	58.3	46.0	29.7
8000	55.9	55.0	55.6	54.4	51.8	50.7	49.6	48.9	48.1	46.3	46.4	49.4	48.9	53.4	54.6	56.5	54.0	40.7	22.8
10000	48.3	47.4	48.1	46.3	43.2	42.2	41.6	41.7	41.8	40.0	40.0	43.5	43.1	48.1	50.0	51.9	49.1	35.3	12.4
12500	39.5	38.7	40.5	39.0	34.7	34.8	33.9	34.1	35.0	32.7	32.8	37.2	37.2	42.7	45.0	46.9	44.0	29.7	2.4
16000	31.5	30.8	33.0	31.3	24.6	25.2	24.1	25.8	26.3	21.7	21.9	29.8	30.3	36.5	39.2	41.5	38.6	20.1	
20000	19.5	18.3	22.6	20.6	9.4	11.1	10.6	12.6	12.0	9.4	6.9	17.8	19.2	29.5	32.8	35.6	32.3	10.5	
25000	7.6	5.8	8.5	10.0								5.7	8.0	13.1	22.8	29.4	25.4	.9	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 04
AIRCRAFT CODE 080
OPERATION CODE 02019
PROFILE VERSION A
20 MAY 76
PAGE F1

NOISE SOURCE/SUBJECT:
F8-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE, F8-111A
EST. F-111F -0.9DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.9 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	105.3	103.7	103.8	102.7	101.5	99.4	98.0	97.9	95.2	93.4	93.6	93.7	92.3	94.3	94.9	96.5	94.9	84.9	74.9
250	103.0	101.4	101.6	100.4	99.2	97.1	95.7	95.5	92.9	91.0	91.2	91.4	90.1	92.1	92.8	94.5	92.8	82.8	72.8
315	100.6	99.1	99.2	98.1	96.8	94.7	93.3	93.2	90.5	88.7	88.9	89.1	87.8	89.9	90.7	92.4	90.7	80.7	70.7
400	98.2	96.6	96.7	95.6	94.3	92.3	90.8	90.7	88.1	86.2	86.4	86.7	85.4	87.7	88.5	90.2	88.6	78.6	68.6
500	95.6	94.1	94.2	93.1	91.8	89.7	88.3	88.1	85.6	83.6	83.8	84.2	83.0	85.3	86.2	88.0	86.3	76.3	66.3
630	92.9	91.4	91.5	90.4	89.0	87.0	85.6	85.4	82.9	80.9	81.1	81.6	80.4	82.9	83.8	85.6	83.9	73.9	63.9
800	90.1	88.6	88.7	87.6	86.2	84.2	82.8	82.6	80.1	78.1	78.3	78.8	77.8	80.3	81.3	83.1	81.3	71.3	61.3
1000	87.1	85.6	85.8	84.6	83.1	81.2	79.8	79.5	77.1	75.1	75.3	75.9	75.0	77.7	78.7	80.5	78.7	68.7	58.7
1250	83.9	82.4	82.6	81.5	79.9	78.0	76.6	76.3	74.0	72.0	72.1	72.9	72.1	74.9	75.9	77.6	75.8	65.8	55.8
1600	80.4	78.9	79.2	78.1	76.4	74.5	73.1	72.9	70.7	68.6	68.8	69.8	69.0	72.0	72.9	74.6	72.7	62.7	52.7
2000	76.6	75.2	75.5	74.4	72.6	70.9	69.5	69.2	67.1	65.2	65.3	66.5	65.9	69.0	69.9	71.4	69.5	59.5	49.5
2500	72.6	71.2	71.6	70.4	68.5	66.9	65.5	65.3	63.4	61.5	61.5	63.1	62.4	65.7	66.4	67.9	65.9	55.9	45.9
3150	68.2	66.9	67.4	66.1	64.1	62.7	61.4	61.1	59.4	57.6	57.6	59.5	58.8	62.2	62.7	64.0	61.9	51.9	41.9
4000	63.4	62.3	62.8	61.5	59.4	58.2	56.9	56.7	55.2	53.5	53.5	55.6	54.9	58.3	58.6	59.8	57.6	47.6	37.6
5000	58.3	57.3	58.0	56.6	54.4	53.4	52.1	52.0	50.7	49.1	49.2	51.4	50.7	54.1	54.3	55.5	53.2	43.2	33.2
6300	52.9	52.1	52.9	51.3	49.1	48.3	47.2	47.0	46.0	44.6	44.6	47.0	46.2	49.7	49.8	51.0	48.6	38.6	28.6
8000	47.4	46.8	47.9	46.2	43.8	43.3	42.3	42.3	41.6	40.3	40.3	42.9	42.2	45.9	46.2	47.5	45.2	35.2	25.2
10000	41.8	41.3	42.6	40.9	38.4	38.1	37.2	37.4	37.1	35.8	35.8	38.6	38.0	41.8	42.4	43.8	41.7	31.7	21.7
12500	36.0	35.5	37.1	35.5	32.6	32.6	31.9	32.3	32.2	31.0	31.0	33.9	33.6	37.4	38.4	40.0	38.0	28.0	18.0
16000	30.0	29.6	31.3	29.8	26.7	26.9	26.4	26.8	27.1	25.9	26.0	28.9	28.9	32.8	34.2	36.2	34.1	24.1	14.1
20000	23.9	23.5	25.2	24.0	20.6	20.9	20.7	21.2	21.7	20.5	20.9	23.6	24.0	27.9	29.9	32.3	30.2	20.2	10.2
25000	17.5	17.2	18.8	17.8	14.5	14.8	14.8	15.4	16.1	15.1	15.8	18.2	19.2	23.1	25.7	28.4	26.2	16.2	6.2

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
FB-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE, F8-111A
EST. F-111F -0.9DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.9 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 04
AIRCRAFT CODE 080
OPERATION CODE 02019
PROFILE VERSION A
20 MAY 76
PAGE G1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	107.3	105.7	105.7	104.6	103.5	101.2	99.8	99.6	97.6	94.7	94.8	95.3	93.8	95.7	94.9	97.7	96.1	86.1	76.1
250	105.0	103.4	103.4	102.3	101.2	98.9	97.5	97.3	94.7	92.3	92.5	93.0	91.6	93.5	92.8	95.6	94.1	84.1	74.1
315	102.6	101.1	101.1	99.9	98.8	96.5	95.2	94.9	92.3	90.0	90.1	90.7	89.3	91.3	90.7	93.5	92.0	82.0	72.0
400	100.2	98.6	98.6	97.5	96.3	94.0	92.7	92.4	89.9	87.5	87.6	88.2	86.9	89.0	88.5	91.4	89.8	79.8	69.8
500	97.6	96.1	96.1	94.9	93.7	91.5	90.1	89.8	87.3	84.9	85.1	85.7	84.5	86.7	86.2	89.1	87.5	77.5	67.5
630	94.9	93.4	93.4	92.3	91.0	88.8	87.5	87.1	84.7	82.2	82.4	83.1	81.9	84.2	83.8	86.8	85.1	75.1	65.1
800	92.1	90.6	90.6	89.5	88.2	86.0	84.6	84.3	81.9	79.4	79.5	80.4	79.3	81.7	81.3	84.3	82.6	72.6	62.6
1000	89.1	87.6	87.6	86.5	85.1	82.9	81.6	81.3	78.9	76.4	76.5	77.5	76.5	79.1	78.7	81.6	79.9	69.9	59.9
1250	85.9	84.4	84.5	83.3	81.8	79.7	78.4	78.0	75.8	73.3	73.4	74.5	73.6	76.3	75.9	78.8	77.0	67.0	57.0
1500	82.4	80.9	81.1	79.9	78.3	76.3	75.0	74.6	72.4	69.9	70.0	71.3	70.5	73.4	72.9	75.7	73.9	63.9	53.9
2000	78.7	77.2	77.4	76.2	74.6	72.6	71.3	70.9	68.9	66.4	66.5	68.1	67.4	70.3	69.9	72.6	70.7	60.7	50.7
2500	74.6	73.2	73.5	72.3	70.5	68.7	67.4	67.0	65.1	62.6	62.8	64.6	63.9	67.1	66.4	69.0	67.1	57.1	47.1
3150	70.2	68.9	69.2	68.0	66.0	64.4	63.2	62.8	61.2	58.9	58.9	61.0	60.3	63.5	62.7	65.2	63.2	53.2	43.2
4000	65.0	63.9	64.3	63.0	60.9	59.6	58.4	58.0	56.6	54.6	54.5	56.9	56.1	59.4	58.6	60.7	58.6	48.6	38.6
5000	59.5	58.5	59.1	57.7	55.5	54.4	53.3	53.0	51.8	49.9	49.9	52.3	51.6	55.0	54.3	56.2	53.9	43.9	33.9
6300	53.7	52.9	53.7	52.1	49.9	49.0	47.9	47.7	46.7	45.1	45.0	47.6	46.8	50.3	49.8	51.4	49.1	39.1	29.1
8000	47.8	47.2	48.2	46.5	44.2	43.6	42.7	42.7	42.0	40.5	40.5	43.2	42.5	46.1	46.2	47.7	45.5	35.5	25.5
10000	41.8	41.3	42.6	40.9	38.4	38.1	37.2	37.4	37.1	35.8	35.8	38.6	38.0	41.8	42.4	43.8	41.7	31.7	21.7
12500	36.0	35.5	37.1	35.5	32.6	32.6	31.9	32.3	32.2	31.0	31.0	33.9	33.6	37.4	38.4	40.0	38.0	28.0	18.0
16000	30.0	29.6	31.3	29.8	26.7	26.9	26.4	26.8	27.1	25.9	26.0	28.9	28.9	32.8	34.2	36.2	34.1	24.1	14.1
20000	23.9	23.5	25.2	24.0	20.6	20.9	20.7	21.2	21.7	20.5	20.9	23.6	24.0	27.9	29.9	32.3	30.2	20.2	10.2
25000	17.5	17.2	18.8	17.8	14.5	14.8	14.8	15.4	16.1	15.1	15.8	18.2	19.2	23.1	25.7	28.4	26.2	16.2	6.2

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

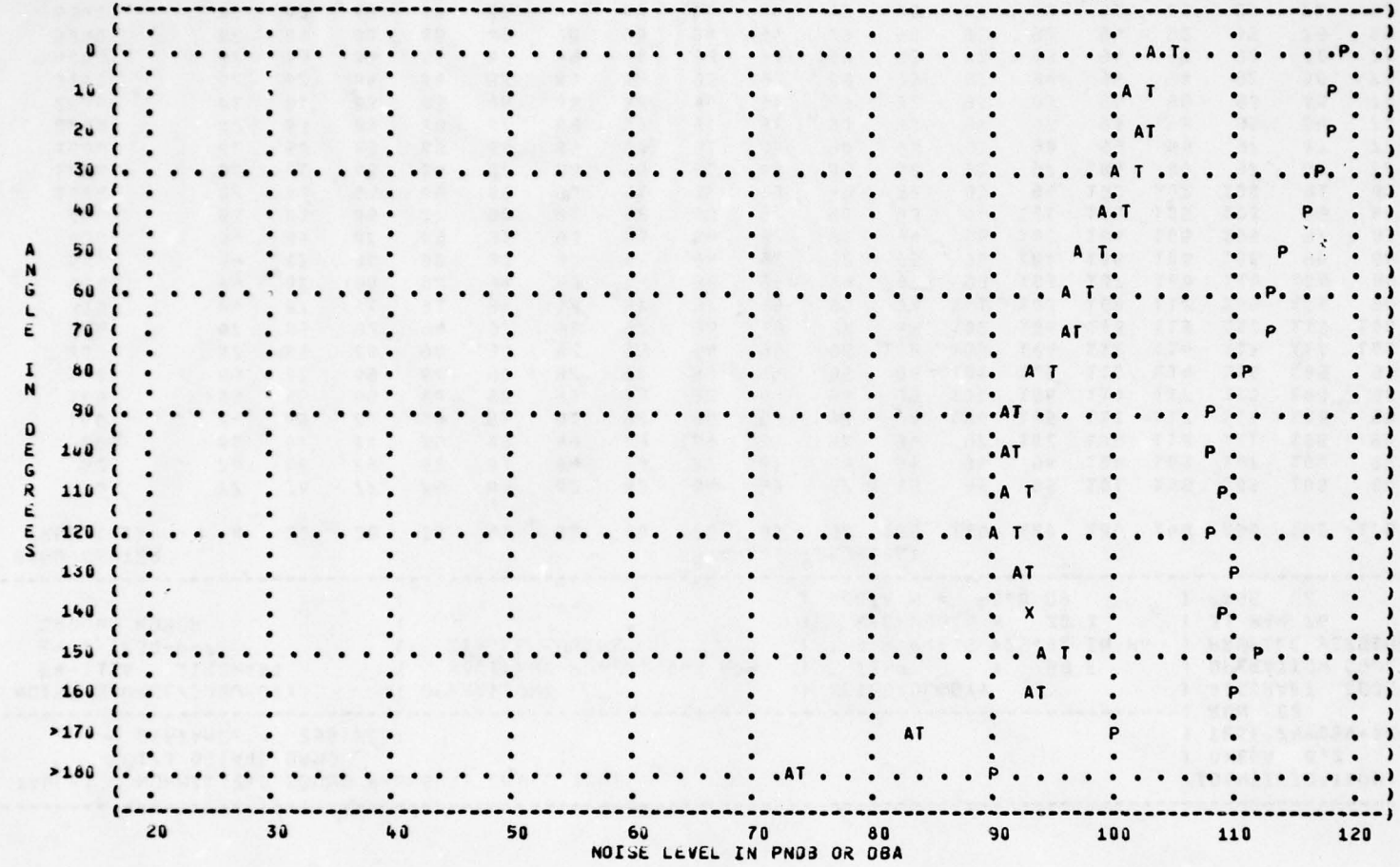
NOISE SOURCE/SUBJECT:
F8-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE, F8-111A
EST. F-111F -0.9DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.9 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 04
AIRCRAFT CODE 080
OPERATION CODE 02019
PROFILE VERSION A
20 MAY 76
PAGE J1

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 02
AIRCRAFT CODE 080
OPERATION CODE 02004
PROFILE VERSION A
31 MAR 76
PAGE C2

NOISE SOURCE/SUBJECT:
FB-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
MILITARY POWER, 96% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	77	76	77	79	80	82	82	84	85	87	89	91	95	101	106	105	100	90	80
63	78	80	79	82	83	84	85	87	87	88	91	94	98	104	109	107	102	92	82
80	81	81	84	85	89	89	89	89	90	90	94	97	102	109	113	111	105	95	85
100	84	85	88	88	91	91	90	90	93	93	98	100	105	112	117	114	108	98	88
125	86	86	89	90	90	91	90	92	94	93	99	101	106	110	117	115	108	98	88
160	86	87	89	88	90	92	91	93	94	95	98	101	105	110	114	116	109	99	89
200	87	89	88	90	93	93	94	94	96	96	100	103	106	112	114	115	111	101	91
250	87	89	92	94	97	96	97	96	99	97	99	102	106	113	115	112	110	100	90
315	89	87	91	91	94	95	97	97	95	95	98	101	103	109	112	109	106	96	86
400	84	87	88	92	94	95	94	96	95	94	97	99	103	107	108	110	100	90	80
500	84	85	88	90	93	93	93	94	92	92	95	98	102	105	108	106	96	86	76
630	84	85	87	89	91	93	93	94	92	91	94	96	102	104	106	104	97	87	77
800	83	84	86	87	90	91	92	93	91	90	93	95	101	103	105	103	95	85	75
1000	82	83	84	86	89	90	91	91	90	89	92	93	99	102	102	100	91	81	71
1250	81	81	83	84	87	89	90	90	89	89	92	92	97	100	99	97	88	78	68
1600	82	83	83	85	88	89	90	91	90	90	93	93	98	99	99	97	87	77	67
2000	82	83	83	84	87	89	90	91	91	90	93	94	97	98	98	95	84	74	64
2500	81	81	83	83	86	88	88	90	91	89	92	93	96	96	96	93	80	70	60
3150	82	82	84	84	87	88	88	92	92	89	93	92	94	96	94	92	80	70	60
4000	82	83	84	85	87	89	90	92	93	89	93	92	93	94	93	90	80	70	60
5000	82	84	85	86	89	90	90	94	94	89	93	92	92	94	92	89	79	69	59
6300	80	82	83	85	87	88	88	90	90	85	90	89	89	91	89	85	76	66	56
8000	79	82	83	84	87	88	87	89	89	84	89	88	88	89	88	84	75	65	55
10000	75	78	79	81	84	84	82	85	85	80	85	84	84	85	84	80	71	61	51
OVERALL	97	98	100	102	104	105	105	107	106	106	109	111	115	120	124	123	117	107	97

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 02
AIRCRAFT CODE 080
OPERATION CODE 02004
PROFILE VERSION A
31 MAR 76
PAGE 02

NOISE SOURCE/SUBJECT:
F8-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
MILITARY POWER, 96% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	110.4	111.5	113.0	114.3	116.9	118.1	118.3	120.4	120.3	118.1	121.6	122.2	125.1	129.2	130.8	129.6	123.1	113.1	103.0
250	108.1	109.2	110.7	112.0	114.6	115.8	116.0	118.1	118.0	115.8	119.4	120.0	122.9	127.1	128.7	127.5	121.0	111.0	100.9
315	105.7	106.8	108.3	109.6	112.2	113.4	113.7	115.7	115.6	113.5	117.1	117.8	120.6	125.0	126.6	125.4	118.9	108.9	98.7
400	103.3	104.3	105.8	107.1	109.7	111.0	111.2	113.2	113.2	111.0	114.7	115.4	118.3	122.8	124.4	123.2	116.7	106.7	96.5
500	100.7	101.8	103.2	104.5	107.1	108.4	108.7	110.6	110.6	108.5	112.2	113.0	116.0	120.5	122.1	120.8	114.5	104.4	94.2
630	98.0	99.1	100.6	101.8	104.4	105.6	105.9	108.0	107.9	105.8	109.5	110.5	113.5	118.0	119.7	118.3	112.0	101.9	91.7
800	95.2	96.3	97.7	99.0	101.6	102.9	103.1	105.2	105.0	103.1	106.8	107.8	110.9	115.3	117.0	115.7	109.4	99.2	89.0
1000	92.1	93.2	94.7	96.0	98.7	99.9	100.1	102.1	102.0	100.2	103.8	104.9	108.2	112.5	114.3	113.1	106.6	96.4	86.1
1250	88.8	89.9	91.4	93.1	95.8	96.9	97.0	98.9	98.7	97.1	100.6	101.9	105.4	109.5	111.3	110.4	103.6	93.4	82.9
1600	85.4	86.5	88.0	90.0	92.7	93.9	93.8	95.4	95.2	93.8	97.2	98.8	102.5	106.2	108.1	107.5	100.3	90.0	79.4
2000	81.9	83.2	84.7	86.8	89.5	90.6	90.5	91.9	91.4	90.4	93.7	95.5	99.3	103.1	104.9	104.5	96.6	86.3	75.6
2500	77.9	79.2	80.9	82.8	85.5	86.7	86.6	88.0	87.3	86.4	89.7	91.6	95.5	99.3	101.2	100.7	92.5	82.0	71.3
3150	73.6	74.9	76.7	78.5	81.2	82.3	82.5	83.9	82.9	82.0	85.4	87.3	91.7	95.0	97.2	96.4	87.9	77.3	66.7
4000	69.0	70.4	72.2	74.0	76.6	77.8	78.1	79.5	78.1	77.3	80.6	82.7	87.3	90.4	92.6	91.5	82.9	72.4	61.6
5000	64.1	65.4	67.2	69.1	71.7	73.0	73.2	74.6	73.1	72.3	75.7	77.8	82.6	85.6	87.8	86.4	78.1	67.5	56.5
6300	58.8	60.2	62.0	64.0	66.6	67.8	68.1	69.4	68.0	67.2	70.5	72.7	77.6	80.5	82.9	81.4	73.1	62.4	51.2
8000	54.3	55.8	57.8	59.8	62.5	63.6	63.8	65.1	63.5	62.9	66.4	68.7	73.6	76.8	79.2	77.8	69.4	58.5	46.7
10000	49.5	51.0	53.3	55.3	58.0	59.0	59.2	60.5	58.9	58.5	62.0	64.5	69.3	72.8	75.3	74.0	65.4	54.3	41.9
12500	43.9	45.5	48.2	50.4	53.2	54.1	54.4	55.6	53.9	53.6	57.2	59.8	64.6	68.5	71.1	69.8	61.1	49.5	36.3
16000	37.4	39.1	42.1	44.7	47.9	48.9	49.0	50.2	48.4	48.1	51.9	54.7	59.6	63.7	66.6	65.3	56.6	44.1	29.7
20000	29.8	32.5	35.1	38.0	41.0	42.1	42.5	44.0	41.7	41.4	45.8	49.1	54.0	58.5	61.6	60.5	52.0	38.5	20.9
25000	18.3	21.7	26.6	30.2	33.7	34.6	34.8	36.2	34.5	33.9	38.6	42.2	47.6	52.5	56.0	55.3	46.6	32.5	12.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 02
AIRCRAFT CODE 080
OPERATION CODE 02004
PROFILE VERSION A
31 MAR 76
PAGE E2

NOISE SOURCE/SUBJECT:
F8-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
MILITARY POWER, 96% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	110.4	111.5	113.0	114.9	117.6	118.1	118.3	120.4	120.3	118.1	121.6	122.2	125.1	129.7	130.8	129.6	123.1	113.1	103.0
250	108.1	109.2	110.7	112.6	115.3	115.8	116.0	118.1	118.0	115.8	119.4	120.0	122.9	127.6	128.7	127.5	121.0	111.0	100.9
315	105.7	106.8	108.3	110.2	112.9	113.4	113.7	115.7	115.6	113.5	117.1	117.8	120.6	125.5	126.6	125.4	118.9	108.9	98.7
400	103.3	104.3	105.8	107.7	110.4	111.0	111.2	113.2	113.2	111.0	114.7	115.4	118.3	123.3	124.4	123.2	116.7	106.7	96.5
500	100.7	101.8	103.2	105.1	107.8	108.4	108.7	110.6	110.6	108.5	112.2	113.0	116.0	121.0	122.1	120.8	114.5	104.4	94.2
630	98.0	99.1	100.6	102.4	105.0	105.6	105.9	108.0	107.9	105.8	109.5	110.5	113.5	118.5	119.7	118.3	112.0	101.9	91.7
800	95.2	96.3	97.7	99.6	102.2	102.9	103.1	105.2	105.0	103.1	106.8	107.8	110.9	115.8	117.0	115.7	109.4	99.2	89.0
1000	92.1	93.2	94.7	96.6	99.4	99.9	100.1	102.1	102.0	100.2	103.8	104.9	108.2	113.0	114.3	113.1	106.6	96.4	86.1
1250	88.8	89.9	91.4	93.7	96.4	96.9	97.0	98.9	98.7	97.1	100.6	101.9	105.4	110.0	111.3	110.4	103.6	93.4	82.9
1600	85.4	86.5	88.0	90.6	93.4	93.9	93.8	95.4	95.2	93.8	97.2	98.8	102.5	106.7	108.1	107.5	100.3	90.0	79.4
2000	81.9	83.2	84.7	87.3	90.1	90.6	90.5	91.9	91.4	90.4	93.7	95.5	99.3	103.6	104.9	104.5	96.6	86.3	75.6
2500	77.9	79.2	80.9	83.4	86.2	86.7	86.6	88.0	87.3	86.4	89.7	91.6	95.5	99.8	101.2	100.7	92.5	82.0	71.3
3150	73.6	74.9	76.7	79.1	81.8	82.3	82.5	83.9	82.9	82.0	85.4	87.3	91.7	95.5	97.2	96.4	87.9	77.3	66.7
4000	69.0	70.4	72.2	74.5	77.1	77.8	78.1	79.5	78.1	77.3	80.6	82.7	87.3	90.8	92.6	91.5	82.9	72.4	61.6
5000	64.1	65.4	67.2	69.4	72.1	73.0	73.2	74.6	73.1	72.3	75.7	77.8	82.6	85.9	87.8	86.4	78.1	67.5	56.5
6300	58.8	60.2	62.0	64.2	66.9	67.8	68.1	69.4	68.0	67.2	70.5	72.7	77.6	80.8	82.9	81.4	73.1	62.4	51.2
8000	54.3	55.8	57.8	59.9	62.6	63.6	63.8	65.1	63.5	62.9	66.4	68.7	73.6	76.9	79.2	77.8	69.4	58.5	46.7
10000	49.5	51.0	53.3	55.3	58.0	59.0	59.2	60.5	58.9	58.5	62.0	64.5	69.3	72.8	75.3	74.0	65.4	54.3	41.9
12500	43.9	45.5	48.2	50.4	53.2	54.1	54.4	55.6	53.9	53.6	57.2	59.8	64.6	68.5	71.1	69.8	61.1	49.5	36.3
16000	37.4	39.1	42.1	44.7	47.9	48.9	49.0	50.2	48.4	48.1	51.9	54.7	59.6	63.7	66.6	65.3	56.6	44.1	29.7
20000	29.8	32.5	35.1	38.0	41.0	42.1	42.5	44.0	41.7	41.4	45.8	49.1	54.0	58.5	61.6	60.5	52.0	38.5	20.9
25000	18.3	21.7	26.6	30.2	33.7	34.6	34.8	36.2	34.5	33.9	38.6	42.2	47.6	52.6	56.0	55.3	46.6	32.5	12.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 02
AIRCRAFT CODE 080
OPERATION CODE 02004
PROFILE VERSION A
31 MAR 76
PAGE F2

NOISE SOURCE/SUBJECT:
FB-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
MILITARY POWER, 96% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	95.9	97.2	98.6	100.2	102.8	104.0	104.4	106.1	105.5	103.6	107.0	108.0	111.8	115.0	116.7	115.6	109.2	99.2	89.2
250	93.7	94.9	96.4	97.9	100.6	101.8	102.2	103.8	103.3	101.4	104.8	105.9	109.7	112.9	114.6	113.5	107.2	97.2	87.2
315	91.5	92.7	94.1	95.7	98.3	99.6	100.0	101.6	101.0	99.2	102.6	103.7	107.6	110.8	112.5	111.5	105.2	95.2	85.2
400	89.1	90.3	91.8	93.4	96.0	97.3	97.7	99.2	98.6	97.0	100.3	101.5	105.4	108.7	110.4	109.4	103.1	93.1	83.1
500	86.8	88.0	89.5	91.1	93.7	94.9	95.4	96.9	96.2	94.6	97.9	99.2	103.2	106.5	108.3	107.2	100.8	90.8	80.8
630	84.3	85.5	87.1	88.7	91.3	92.5	93.0	94.4	93.7	92.2	95.5	96.9	100.9	104.2	106.0	104.9	98.5	88.5	78.5
800	81.8	83.0	84.6	86.2	88.8	90.1	90.6	91.9	91.1	89.6	93.0	94.4	98.6	101.8	103.6	102.5	96.0	86.0	76.0
1000	79.3	80.5	82.0	83.7	86.3	87.6	88.1	89.3	88.4	87.2	90.4	92.0	96.2	99.4	101.2	100.1	93.5	83.5	73.5
1250	76.6	77.8	79.4	81.1	83.7	85.0	85.4	86.6	85.6	84.5	87.8	89.3	93.7	96.8	98.6	97.5	90.6	80.6	70.6
1600	73.8	75.1	76.7	78.4	81.0	82.3	82.7	83.9	82.7	81.8	85.0	86.6	91.0	94.1	95.9	94.8	87.7	77.7	67.7
2000	70.9	72.2	73.8	75.7	78.2	79.5	79.9	81.0	79.6	78.9	82.1	83.8	88.3	91.3	93.1	92.0	84.6	74.6	64.6
2500	67.8	69.1	70.8	72.6	75.1	76.4	76.8	77.9	76.5	75.7	78.9	80.7	85.4	88.2	89.9	88.8	81.1	71.1	61.1
3150	64.5	65.8	67.4	69.3	71.7	73.1	73.5	74.6	73.0	72.3	75.5	77.2	82.1	84.8	86.5	85.2	77.3	67.3	57.3
4000	60.8	62.1	63.7	65.6	68.0	69.4	69.8	70.9	69.2	68.5	71.7	73.5	78.5	81.0	82.7	81.3	73.2	63.2	53.2
5000	56.7	58.0	59.6	61.4	63.9	65.2	65.7	66.7	65.1	64.3	67.5	69.3	74.4	76.8	78.6	77.0	68.8	58.8	48.8
6300	52.3	53.5	55.2	57.0	59.4	60.8	61.3	62.3	60.6	59.8	63.0	64.8	70.1	72.4	74.2	72.5	64.3	54.3	44.3
8000	48.2	49.6	51.3	53.2	55.5	56.9	57.4	58.4	56.5	55.7	59.0	61.0	66.2	68.6	70.5	68.9	60.8	50.8	40.8
10000	43.9	45.3	47.1	49.1	51.4	52.7	53.1	54.1	52.2	51.5	54.7	56.8	62.0	64.6	66.5	65.0	57.1	47.1	37.1
12500	39.2	40.6	42.6	44.6	46.8	48.1	48.4	49.5	47.6	46.9	50.1	52.4	57.4	60.1	62.2	60.9	53.1	43.1	33.1
16000	34.1	35.6	37.6	39.6	41.9	43.1	43.4	44.5	42.5	41.9	45.1	47.5	52.4	55.4	57.6	56.4	48.9	38.9	28.9
20000	28.6	30.1	32.2	34.3	36.6	37.7	37.9	39.0	37.2	36.6	39.8	42.3	46.9	50.3	52.7	51.7	44.5	34.5	24.5
25000	22.6	24.2	26.3	28.4	30.8	31.8	31.9	33.0	31.4	30.9	34.1	36.7	41.1	44.9	47.5	46.7	39.9	29.9	19.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
FB-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
MILITARY POWER, 96% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 02
AIRCRAFT CODE 080
OPERATION CODE 02004
PROFILE VERSION A
31 MAR 76
PAGE G2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	95.9	97.2	98.6	100.7	103.4	104.0	104.4	106.1	105.5	103.6	107.0	108.0	111.8	115.5	116.7	115.6	109.2	99.2	89.2
250	93.7	94.9	96.4	98.5	101.2	101.8	102.2	103.8	103.3	101.4	104.8	105.9	109.7	113.4	114.6	113.5	107.2	97.2	87.2
315	91.5	92.7	94.1	96.3	99.0	99.6	100.0	101.6	101.0	99.2	102.6	103.7	107.6	111.3	112.5	111.5	105.2	95.2	85.2
400	89.1	90.3	91.8	94.0	96.7	97.3	97.7	99.2	98.6	97.0	100.3	101.5	105.4	109.2	110.4	109.4	103.1	93.1	83.1
500	86.8	88.0	89.5	91.6	94.4	94.9	95.4	96.9	96.2	94.6	97.9	99.2	103.2	107.0	108.3	107.2	100.8	90.8	80.8
630	84.3	85.5	87.1	89.2	92.0	92.5	93.0	94.4	93.7	92.2	95.5	96.9	100.9	104.7	106.0	104.9	98.5	88.5	78.5
800	81.8	83.0	84.6	86.8	89.5	90.1	90.6	91.9	91.1	89.8	93.0	94.4	98.6	102.3	103.6	102.5	96.0	86.0	76.0
1000	79.3	80.5	82.0	84.3	87.0	87.6	88.1	89.3	88.4	87.2	90.4	92.0	96.2	99.9	101.2	100.1	93.5	83.5	73.5
1250	76.6	77.8	79.4	81.7	84.4	85.0	85.4	86.6	85.6	84.5	87.8	89.3	93.7	97.3	98.6	97.5	90.6	80.6	70.6
1600	73.8	75.1	76.7	79.0	81.7	82.3	82.7	83.9	82.7	81.8	85.0	86.6	91.0	94.6	95.9	94.8	87.7	77.7	67.7
2000	70.9	72.2	73.8	76.3	78.9	79.5	79.9	81.0	79.8	78.9	82.1	83.8	88.3	91.8	93.1	92.0	84.6	74.6	64.6
2500	67.8	69.1	70.8	73.2	75.8	76.4	76.8	77.9	76.5	75.7	78.9	80.7	85.4	88.7	89.9	88.8	81.1	71.1	61.1
3150	64.5	65.8	67.4	69.9	72.4	73.1	73.5	74.6	73.0	72.3	75.5	77.2	82.1	85.3	86.5	85.2	77.3	67.3	57.3
4000	60.8	62.1	63.7	66.1	68.5	69.4	69.8	70.9	69.2	68.5	71.7	73.5	78.5	81.4	82.7	81.3	73.2	63.2	53.2
5000	58.7	58.0	59.6	61.8	64.3	65.2	65.7	66.7	65.1	64.3	67.5	69.3	74.4	77.1	78.6	77.0	68.8	58.8	48.8
6300	52.3	53.5	55.2	57.3	59.7	60.8	61.3	62.3	60.6	59.8	63.0	64.8	70.1	72.6	74.2	72.5	64.3	54.3	44.3
8000	48.2	49.6	51.3	53.3	55.7	56.9	57.4	58.4	56.5	55.7	59.0	61.0	66.2	68.7	70.5	68.9	60.8	50.8	40.8
10000	43.9	45.3	47.1	49.1	51.4	52.7	53.1	54.1	52.2	51.5	54.7	56.8	62.0	64.6	66.5	65.0	57.1	47.1	37.1
12500	39.2	40.6	42.6	44.6	46.8	48.1	48.4	49.5	47.6	46.9	50.1	52.4	57.4	60.1	62.2	60.9	53.1	43.1	33.1
16000	34.1	35.6	37.6	39.6	41.9	43.1	43.4	44.5	42.5	41.9	45.1	47.5	52.4	55.4	57.6	56.4	48.9	38.9	28.9
20000	28.6	30.1	32.2	34.3	36.6	37.7	37.9	39.0	37.2	36.6	39.8	42.3	46.9	50.3	52.7	51.7	44.5	34.5	24.5
25000	22.6	24.2	26.3	28.4	30.8	31.8	31.9	33.0	31.4	30.9	34.1	36.7	41.1	44.9	47.5	46.7	39.9	29.9	19.9

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

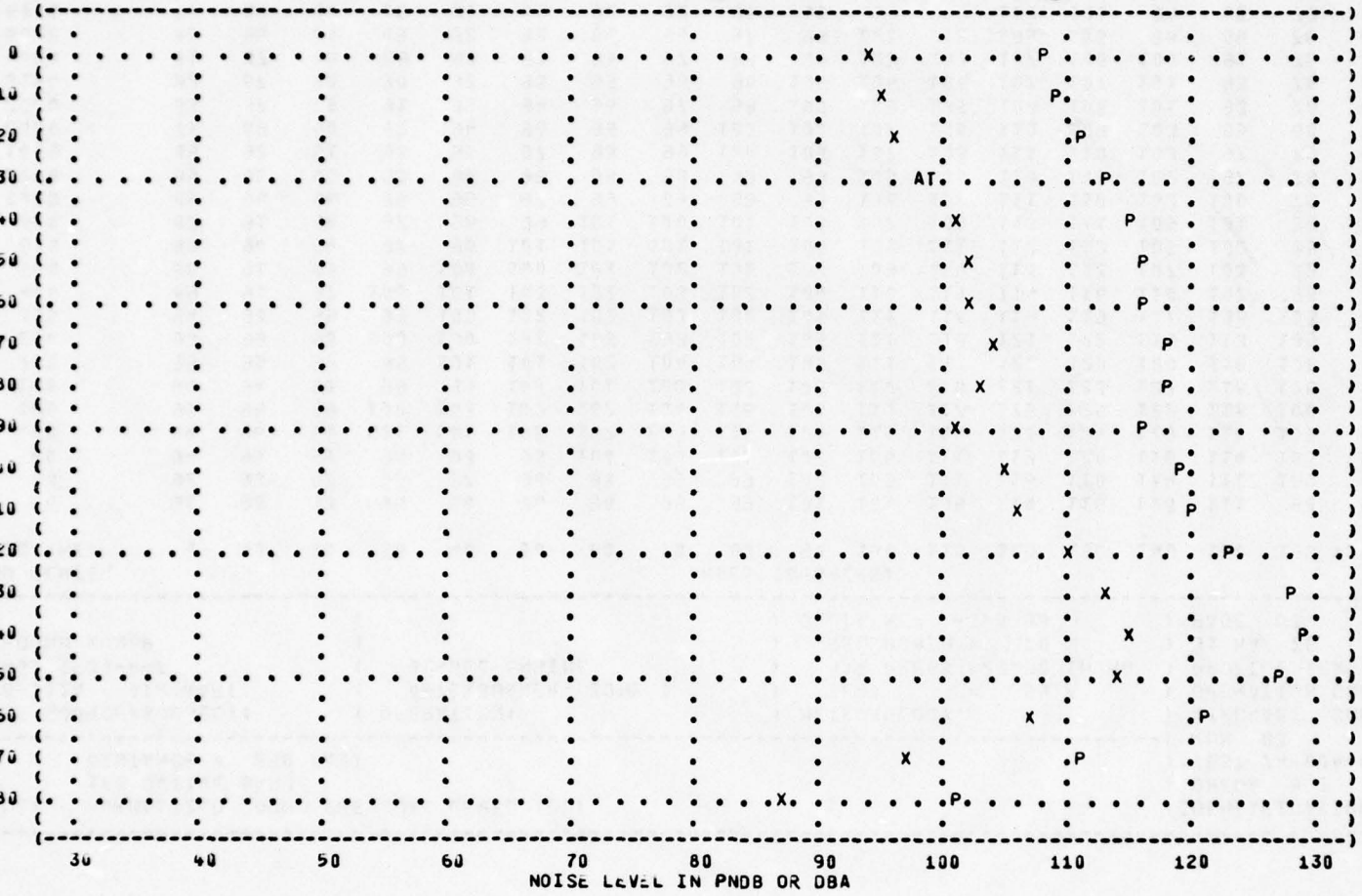
NOISE SOURCE/SUBJECT:
FB-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
MILITARY POWER, 96% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 02
AIRCRAFT CODE 080
OPERATION CODE 02004
PROFILE VERSION A
31 MAR 76

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 03
AIRCRAFT CODE 080
OPERATION CODE 02003
PROFILE VERSION A
31 MAR 76
PAGE C3

NOISE SOURCE/SUBJECT:
FB-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
AFTERBURNER, ZONE 3
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	91	93	93	95	96	96	98	99	99	101	104	109	114	116	113	111	98	88	78
63	92	93	93	95	97	98	98	99	99	102	105	111	116	118	114	112	100	90	80
80	94	95	95	96	98	98	100	100	101	102	105	111	119	120	116	114	103	93	83
100	94	96	99	101	101	102	102	103	104	106	111	117	123	124	120	117	105	95	85
125	95	96	99	102	103	102	102	104	106	108	111	117	125	125	122	118	108	98	88
160	94	94	98	99	99	100	101	103	103	106	110	115	121	123	122	118	108	98	88
200	95	95	98	99	101	101	102	104	104	105	111	117	122	120	120	116	108	98	88
250	93	95	98	100	100	102	103	103	104	106	111	118	121	122	119	113	109	99	89
315	90	93	96	99	100	102	102	103	102	105	111	118	119	119	117	108	103	93	83
400	89	91	97	100	101	103	102	103	102	104	110	115	114	116	110	107	98	88	78
500	88	91	95	99	100	100	101	102	101	102	109	114	113	113	107	103	92	82	72
630	88	90	94	97	98	101	101	101	101	100	108	111	112	112	105	102	85	75	65
800	87	91	94	97	98	99	101	100	101	100	107	109	113	111	105	101	80	70	60
1000	86	90	91	95	96	97	99	99	99	99	106	107	111	110	103	100	79	69	59
1250	85	90	90	93	95	96	98	98	99	99	105	106	110	109	102	97	79	69	59
1600	85	90	91	93	95	97	98	99	100	100	107	108	111	110	103	97	79	69	59
2000	85	89	90	92	94	96	98	99	100	100	107	108	110	109	103	95	80	70	60
2500	83	87	88	91	93	94	96	97	99	100	105	105	108	108	101	93	78	68	58
3150	82	87	88	90	92	93	95	98	98	100	104	105	107	107	101	93	76	66	56
4000	81	87	88	89	92	93	95	97	98	99	103	103	107	106	100	91	76	66	56
5000	81	86	88	89	92	93	94	96	97	99	103	102	105	105	98	89	76	66	56
6300	77	82	84	86	90	89	92	92	93	95	99	98	102	101	94	85	73	63	53
8000	75	81	83	85	89	89	90	90	90	94	98	97	102	101	94	82	72	62	52
10000	71	77	79	82	85	85	86	86	85	89	94	95	97	99	88	77	69	59	49
OVERALL	104	106	108	111	112	113	113	114	115	116	121	126	131	132	129	125	116	106	96

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
FB-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
AFTERBURNER, ZONE 3
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 03
AIRCRAFT CODE 080
OPERATION CODE 02003
PROFILE VERSION A
31 MAR 76
PAGE 03

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	113.1	116.9	118.7	120.8	122.8	123.7	125.2	126.5	127.1	128.4	133.4	135.9	139.2	139.2	135.0	130.2	120.6	110.6	100.5
250	110.9	114.6	116.5	118.6	120.5	121.5	122.9	124.3	124.9	126.2	131.2	133.8	137.1	137.0	132.9	128.1	118.6	108.5	98.4
315	108.7	112.4	114.2	116.4	118.3	119.2	120.6	122.0	122.6	123.9	128.9	131.6	134.9	134.9	130.8	126.0	116.5	106.4	96.2
400	106.3	110.0	111.8	114.0	115.9	116.9	118.3	119.7	120.2	121.6	126.5	129.4	132.7	132.7	128.6	123.8	114.3	104.3	94.1
500	103.9	107.5	109.4	111.7	113.5	114.5	115.8	117.2	117.8	119.1	124.1	127.1	130.4	130.3	126.2	121.4	112.1	102.0	91.8
630	101.4	105.0	106.9	109.3	110.9	112.0	113.3	114.7	115.2	116.5	121.6	124.8	127.9	127.8	123.7	118.9	109.6	99.5	89.2
800	98.7	102.2	104.3	106.8	108.2	109.5	110.7	112.0	112.6	113.8	119.0	122.3	125.2	125.2	121.1	116.3	106.9	96.8	86.5
1000	96.0	99.4	101.7	104.2	105.5	106.8	107.9	109.2	109.8	111.0	116.3	119.7	122.5	122.5	118.5	113.6	104.1	93.9	83.6
1250	92.9	96.4	98.9	101.4	102.7	104.0	105.0	106.3	106.8	107.9	113.3	116.8	119.5	119.5	115.6	110.6	101.1	90.8	80.3
1600	89.7	93.1	95.9	98.5	99.7	101.1	101.8	103.1	103.6	104.6	110.2	113.6	116.3	116.3	112.3	107.3	97.7	87.4	76.6
2000	86.5	89.5	92.7	95.3	96.5	97.9	98.7	99.6	100.2	101.1	106.7	110.5	112.8	113.1	108.8	103.8	93.9	83.5	72.7
2500	82.5	85.7	88.8	91.6	92.6	94.1	94.8	95.7	96.3	97.1	102.9	106.7	109.0	109.3	104.8	99.8	89.7	79.1	68.2
3150	78.4	81.5	84.4	87.5	88.5	89.8	90.7	91.6	92.0	92.8	98.8	102.7	104.9	105.0	100.3	95.4	84.8	74.0	63.0
4000	73.7	76.9	79.8	83.1	84.0	85.5	86.4	87.1	87.4	88.1	94.3	98.2	100.4	100.1	95.2	90.5	79.1	68.5	57.3
5000	68.8	72.2	75.0	78.3	79.2	80.7	81.6	82.3	82.5	83.1	89.4	93.4	95.7	95.2	89.9	85.3	73.8	62.9	51.5
6300	63.6	67.1	69.9	73.3	74.2	75.7	76.7	77.3	77.5	78.0	84.4	88.4	90.8	90.2	84.8	80.3	68.3	57.1	44.8
8000	59.5	62.7	65.8	69.3	70.2	71.6	72.4	73.1	73.3	73.9	80.4	84.6	86.7	86.4	81.0	76.6	64.9	53.5	40.1
10000	54.9	57.8	61.3	65.1	65.9	67.2	68.0	68.8	68.8	69.6	76.2	80.6	82.5	82.4	77.2	72.8	61.4	49.4	35.4
12500	50.0	52.7	56.5	60.5	61.3	62.4	63.1	64.2	63.9	65.0	71.6	76.2	78.2	78.2	73.0	68.7	57.6	45.0	31.1
16000	44.3	47.1	51.3	55.3	56.2	57.3	57.9	59.1	58.7	60.0	66.7	71.0	73.6	73.5	68.9	64.3	53.4	40.1	24.5
20000	37.6	40.5	45.2	49.8	50.4	51.5	52.1	53.4	53.0	54.4	61.3	66.4	68.6	68.7	64.7	60.0	49.0	35.2	16.3
25000	29.8	32.0	38.2	42.9	43.6	44.8	45.4	46.8	46.3	48.0	55.2	60.7	63.5	63.7	60.2	55.4	43.7	29.3	8.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
FB-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
AFTERBURNER, ZONE 3
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 03
AIRCRAFT CODE 080
OPERATION CODE 02003
PROFILE VERSION A
31 MAR 76
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	113.1	116.9	118.7	120.8	122.8	123.7	125.2	126.5	127.1	128.4	133.4	135.9	139.7	139.2	135.6	130.2	121.2	111.2	101.1
250	110.9	114.6	116.5	118.6	120.5	121.5	122.9	124.3	124.9	126.2	131.2	133.8	137.6	137.0	133.5	128.1	119.1	109.1	99.0
315	108.7	112.4	114.2	116.4	118.3	119.2	120.6	122.0	122.6	123.9	128.9	131.6	135.4	134.9	131.4	126.0	117.1	107.0	96.8
400	106.3	110.0	111.8	114.0	115.9	116.9	118.3	119.7	120.2	121.6	126.5	129.4	133.2	132.7	129.1	123.8	114.9	104.9	94.6
500	103.9	107.5	109.4	111.7	113.5	114.5	115.8	117.2	117.8	119.1	124.1	127.1	130.9	130.3	126.8	121.4	112.7	102.6	92.3
630	101.4	105.0	106.9	109.3	110.9	112.0	113.3	114.7	115.2	116.5	121.6	124.8	128.4	127.8	124.3	118.9	110.2	100.0	89.8
800	98.7	102.2	104.3	106.8	108.2	109.5	110.7	112.0	112.6	113.8	119.0	122.3	125.7	125.2	121.7	116.3	107.5	97.3	87.1
1000	96.0	99.4	101.7	104.2	105.5	106.8	107.9	109.2	109.8	111.0	116.3	119.7	123.0	122.5	119.1	113.6	104.7	94.5	84.1
1250	92.9	96.4	98.9	101.4	102.7	104.0	105.0	106.3	106.8	107.9	113.3	116.8	120.1	119.5	116.1	110.6	101.6	91.4	80.8
1500	89.7	93.1	95.9	98.5	99.7	101.1	101.8	103.1	103.6	104.6	110.2	113.6	116.8	116.3	112.9	107.3	98.2	87.9	77.2
2000	86.5	89.9	92.7	95.3	96.5	97.9	98.7	99.6	100.2	101.1	106.7	110.5	113.3	113.1	109.4	103.8	94.5	84.1	73.3
2500	82.5	85.7	88.8	91.6	92.6	94.1	94.8	95.7	96.3	97.1	102.9	106.7	109.5	109.3	105.4	99.8	90.3	79.6	68.7
3150	78.4	81.5	84.4	87.5	88.5	89.8	90.7	91.6	92.0	92.8	98.8	102.7	105.4	105.0	100.9	95.4	85.4	74.6	63.6
4000	73.7	76.9	79.8	83.1	84.0	85.5	86.4	87.1	87.4	88.1	94.3	98.2	100.8	100.1	95.7	90.5	79.6	68.9	57.8
5000	68.8	72.2	75.0	78.3	79.2	80.7	81.6	82.3	82.5	83.1	89.4	93.4	96.1	95.2	90.2	85.3	74.1	63.2	51.9
6300	63.6	67.1	69.9	73.3	74.2	75.7	76.7	77.3	77.5	78.0	84.4	88.4	91.0	90.2	85.0	80.3	68.5	57.3	45.0
8000	59.5	62.7	65.8	69.3	70.2	71.6	72.4	73.1	73.3	73.9	80.4	84.6	86.8	86.4	81.2	76.6	65.1	53.6	40.2
10000	54.9	57.8	61.3	65.1	65.9	67.2	68.0	68.8	68.8	69.6	76.2	80.6	82.5	82.4	77.2	72.8	61.4	49.4	35.4
12500	50.0	52.7	56.5	60.5	61.3	62.4	63.1	64.2	63.9	65.0	71.6	76.2	78.2	78.2	73.0	68.7	57.6	45.0	31.1
16000	44.3	47.1	51.3	55.3	56.2	57.3	57.9	59.1	58.7	60.0	66.7	71.6	73.6	73.5	68.9	64.3	53.4	40.1	24.5
20000	37.6	40.5	45.2	49.8	50.4	51.5	52.1	53.4	53.0	54.4	61.3	66.4	68.6	68.7	64.7	60.0	49.0	35.2	18.3
25000	29.6	32.6	38.2	42.9	43.6	44.8	45.4	46.8	46.3	48.0	55.2	60.7	63.5	63.7	60.2	55.4	43.7	29.3	8.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
FB-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
AFTERBURNER, ZONE 3
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 03
AIRCRAFT CODE 080
OPERATION CODE 02J03
PROFILE VERSION A
31 MAR 76
PAGE F3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	99.0	102.0	104.9	107.5	109.0	110.4	111.6	112.5	113.0	113.8	119.5	122.3	125.0	124.6	120.2	115.1	106.8	96.8	86.8
250	96.9	100.4	102.7	105.4	106.9	108.2	109.4	110.4	110.8	111.6	117.4	120.2	122.9	122.5	118.2	113.1	104.7	94.7	84.7
315	94.7	98.2	100.6	103.2	104.7	106.1	107.3	108.2	108.6	109.4	115.2	118.1	120.8	120.3	116.1	111.0	102.7	92.7	82.7
400	92.5	96.0	98.4	101.1	102.5	103.9	105.1	106.0	106.4	107.1	113.0	116.0	118.6	118.2	114.0	108.9	100.6	90.6	80.6
500	90.5	93.7	96.1	98.8	100.3	101.6	102.8	103.7	104.1	104.8	110.7	113.8	116.3	115.9	111.7	106.7	98.4	88.4	78.4
630	88.0	91.4	93.8	96.6	98.0	99.4	100.5	101.3	101.7	102.4	108.4	111.5	114.0	113.6	109.4	104.3	96.0	86.0	76.0
800	85.6	89.0	91.5	94.3	95.6	97.0	98.1	98.9	99.3	99.9	106.0	109.1	111.6	111.2	106.9	101.8	93.4	83.4	73.4
1000	83.1	86.5	89.0	91.9	93.2	94.6	95.7	96.5	96.8	97.4	103.5	106.7	109.1	108.7	104.3	99.3	90.8	80.8	70.8
1250	80.5	83.8	86.2	89.4	90.6	92.1	93.1	93.9	94.2	94.7	100.9	104.2	106.4	106.0	101.5	96.5	87.8	77.8	67.8
1500	77.8	81.1	83.9	86.8	88.0	89.5	90.5	91.2	91.4	91.9	98.2	101.5	103.6	103.2	98.5	93.6	84.6	74.6	64.6
2000	75.0	78.3	81.1	84.1	85.3	86.8	87.8	88.4	88.6	89.0	95.4	98.7	100.7	100.3	95.3	90.6	81.2	71.2	61.2
2500	71.9	75.2	78.1	81.2	82.3	83.8	84.8	85.4	85.5	85.8	92.4	95.6	97.6	97.0	91.8	87.1	77.3	67.3	57.3
3150	68.6	71.9	74.8	77.9	79.0	80.6	81.5	82.0	82.2	82.4	89.0	92.1	94.1	93.5	87.9	83.4	72.9	62.9	52.9
4000	64.9	68.3	71.1	74.2	75.4	76.9	77.9	78.3	78.5	78.5	85.3	88.2	90.4	89.6	83.7	79.4	68.0	58.0	48.0
5000	60.8	64.3	67.0	70.1	71.3	72.8	73.9	74.2	74.4	74.3	81.2	83.9	86.2	85.3	79.3	75.1	63.1	53.1	43.1
6300	56.4	59.9	62.6	65.7	66.9	68.4	69.5	69.8	70.0	69.8	76.7	79.4	81.8	80.9	74.7	70.7	58.2	48.2	38.2
8000	52.4	55.8	58.7	61.9	63.0	64.5	65.5	65.8	65.9	65.8	72.7	75.7	77.9	77.0	71.1	67.1	55.2	45.2	35.2
10000	48.1	51.3	54.5	57.8	58.8	60.3	61.2	61.5	61.5	61.4	68.4	71.7	73.6	72.9	67.2	63.2	52.1	42.1	32.1
12500	43.5	46.5	49.9	53.3	54.2	55.7	56.5	56.9	56.8	56.8	63.8	67.4	69.1	68.5	63.2	59.1	48.8	38.8	28.8
16000	38.6	41.3	45.0	48.4	49.2	50.7	51.3	51.8	51.6	51.9	58.7	62.7	64.2	63.9	59.1	54.9	45.3	35.3	25.3
20000	33.3	35.8	39.6	43.0	43.7	45.2	45.7	46.3	46.0	46.6	53.3	57.7	59.2	59.1	54.9	50.6	41.6	31.6	21.6
25000	27.8	29.9	33.8	37.2	37.8	39.2	39.6	40.4	40.0	41.0	47.4	52.2	54.0	54.2	50.6	46.3	37.6	27.6	17.6

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
FB-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
AFTERBURNER, ZONE 3
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 03
AIRCRAFT CODE 080
OPERATION CODE 02003
PROFILE VERSION A
31 MAR 76
PAGE G3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	99.0	102.6	104.9	107.5	109.0	110.4	111.6	112.5	113.0	113.8	119.5	122.3	125.5	124.6	120.8	115.1	107.3	97.3	87.3
250	96.9	100.4	102.7	105.4	106.9	108.2	109.4	110.4	110.8	111.6	117.4	120.2	123.4	122.5	118.8	113.1	105.3	95.3	85.3
315	94.7	98.2	100.6	103.2	104.7	106.1	107.3	108.2	108.6	109.4	115.2	118.1	121.3	120.3	116.7	111.0	103.3	93.3	83.3
400	92.5	96.0	98.4	101.1	102.5	103.9	105.1	106.0	106.4	107.1	113.0	116.0	119.1	118.2	114.5	108.9	101.2	91.2	81.2
500	90.3	93.7	96.1	98.8	100.3	101.6	102.8	103.7	104.1	104.8	110.7	113.8	116.9	115.9	112.3	106.7	99.0	89.0	79.0
630	88.0	91.4	93.8	96.6	98.0	99.4	100.5	101.3	101.7	102.4	108.4	111.5	114.5	113.6	109.9	104.3	96.5	86.5	76.5
800	85.6	89.0	91.5	94.3	95.6	97.0	98.1	98.9	99.3	99.9	106.0	109.1	112.1	111.2	107.5	101.8	94.0	84.0	74.0
1000	83.1	86.5	89.0	91.9	93.2	94.6	95.7	96.5	96.8	97.4	103.5	106.7	109.6	108.7	104.9	99.3	91.3	81.3	71.3
1250	80.5	83.8	86.5	89.4	90.6	92.1	93.1	93.9	94.2	94.7	100.9	104.2	107.0	106.0	102.1	96.5	88.4	78.4	68.4
1600	77.8	81.1	83.9	86.8	88.0	89.5	90.5	91.2	91.4	91.9	98.2	101.5	104.2	103.2	99.1	93.6	85.2	75.2	65.2
2000	75.0	78.3	81.1	84.1	85.3	86.8	87.8	88.4	88.6	89.0	95.4	98.7	101.3	100.3	95.9	90.6	81.8	71.8	61.8
2500	71.9	75.2	78.1	81.2	82.3	83.8	84.8	85.4	85.5	85.8	92.4	95.0	98.1	97.0	92.4	87.1	77.9	67.9	57.9
3150	68.6	71.9	74.8	77.9	79.0	80.6	81.5	82.0	82.2	82.4	89.0	92.1	94.7	93.5	88.5	83.4	73.5	63.5	53.5
4000	64.9	68.3	71.1	74.2	75.4	76.9	77.9	78.3	78.5	78.5	85.3	88.2	90.8	89.5	84.2	79.4	68.5	58.5	48.5
5000	60.8	64.3	67.0	70.1	71.3	72.8	73.9	74.2	74.4	74.3	81.2	83.9	86.6	85.3	79.7	75.1	63.4	53.4	43.4
6300	56.4	59.9	62.6	65.7	66.9	68.4	69.2	69.8	70.0	69.8	76.7	79.4	82.0	80.9	75.0	70.7	58.4	48.4	38.4
8000	52.4	55.8	58.7	61.9	63.0	64.5	65.5	65.8	65.9	65.8	72.7	75.7	78.0	77.0	71.2	67.1	55.3	45.3	35.3
10000	48.1	51.3	54.5	57.8	58.8	60.3	61.2	61.5	61.5	61.4	68.4	71.7	73.6	72.9	67.2	63.2	52.1	42.1	32.1
12500	43.5	46.5	49.9	53.3	54.2	55.7	56.2	56.9	56.8	56.8	63.8	67.4	69.1	68.5	63.2	59.1	48.8	38.8	28.8
16000	38.6	41.3	45.0	48.4	49.2	50.7	51.3	51.8	51.6	51.9	58.7	62.7	64.2	63.9	59.1	54.9	45.3	35.3	25.3
20000	33.3	35.8	39.6	43.0	43.7	45.2	45.7	46.3	46.0	46.6	53.3	57.7	59.2	59.1	54.9	50.6	41.6	31.6	21.6
25000	27.8	29.9	33.8	37.2	37.8	39.2	39.6	40.4	40.0	41.0	47.4	52.2	54.0	54.2	50.6	46.3	37.6	27.6	17.6

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

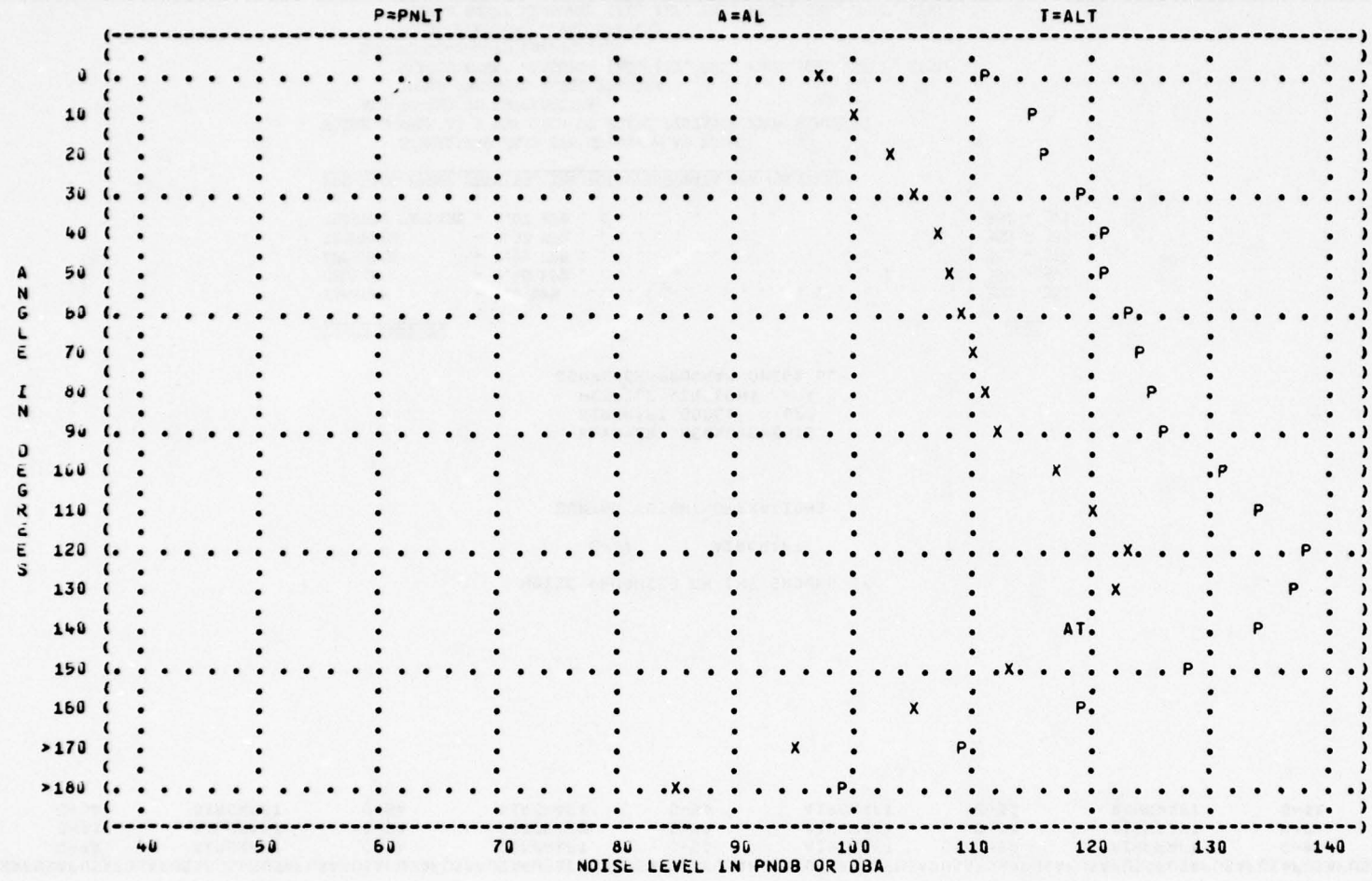
NOISE SOURCE/SUBJECT:
FB-111A AIRCRAFT
ENG. TF30-P-7
GROUND RUNUP

OPERATION:
AFTERBURNER, ZONE 3
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-024
RUN 03
AIRCRAFT CODE 080
OPERATION CODE 02003
PROFILE VERSION A
31 MAR 76
PAGE J3

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAF C-5A AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

C-5A AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 022
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

POWER SETTING		PAGE
TAKEOFF	- 4.0 EPR	353 - 361
CRUISE	- 2.48 EPR	362 - 370
APPROACH	- 2.99 EPR	371 - 379
INTERMED	- 3.38 EPR	380 - 388
TRAFFIC PATTERN	- 3.07 EPR	389 - 397

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
AIR-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO



C-5A TAKEOFF POWER 4.0 EPR 80 % NC 89 % NF

AIRSPEED = 185 KNOTS
SLANT DISTANCE = 1000 FEET
NO. OF RECORDS = 4

TEMP = 59 F
REL HUMID = 70 %
IDENT: 6.6-022-103-270176

PNLT = 119.3 PNDB
PNL = 117.9 PNDB
ALT = 107.6 DBA
AL = 106.1 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-5A

OPERATION:
TAKEOFF POWER
4.0 EPR 80 % NC
89 % NF
AIRSPEED = 185 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 022
OPS CODE: 103
PROFILE VER: A
27 JAN 76
PAGE H1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	89	87	88	95	98	98	93	94	98	96	97	98	100	108	109	117	116	108	112	115	108	109	114	123
250	87	85	86	93	96	95	91	92	96	94	95	96	98	106	107	115	114	106	110	112	106	106	111	120
315	85	83	84	91	94	93	89	90	94	92	93	94	96	104	105	113	112	104	108	110	103	103	108	116
400	83	81	82	89	92	91	87	88	92	90	91	92	94	102	103	110	110	101	105	107	100	100	104	111
500	81	79	80	87	90	89	85	86	90	88	89	90	92	99	100	108	107	99	103	104	97	97	100	106
630	79	77	78	85	88	87	83	84	88	86	87	88	89	97	98	106	105	96	100	101	94	93	95	100
800	77	75	76	83	86	85	80	82	86	84	85	85	87	95	96	103	102	93	97	97	90	89	90	93
1000	75	73	74	81	84	83	78	80	84	81	82	83	85	93	93	101	100	91	93	94<	86	84	83	85
1250	73	71	72	79	82	81	76	78	82	79	80	81	83	90	91	98	97	87	90	90	82	78	76	75
1600	71	69	70	77	80	79	74	76	80	77	78	79	80	88	88	95	94	84	86	85	76	71	67	63
2000	69	67	68	75	78	77	72	74	77	75	76	76	78	85	85	92	90	80	81	79	70	64	57	49
2500	67	65	66	73	76	75	70	71	75	72	73	74	75	82	82	89	87	76	76	73	63	54	44	31
3150	65	63	64	70	74	73	68	69	73	70	71	71	72	79	79	85	82	71	70	65	54	43	29	9
4000	63	61	62	68	71	71	65	67	70	67	68	68	69	76	75	81	78	65	63	56	44	29	10	
5000	61	58	60	66	69	68	63	64	68	65	65	65	66	72	71	76	72	59	55	46	32	13		
6300	58	56	58	64	67	66	61	62	65	62	62	62	62	68	66	71	66	51	45	33	17			
8000	56	54	56	62	65	64	58	59	62	59	59	58	58	63	61	64	58	41	33	17				
10000	54	52	53	59	62	61	55	56	59	56	55	54	53	58	55	57	49	30	19					
12500	52	50	51	57	60	58	53	53	56	52	51	49	48	52	48	48	38	17	1					
16000	50	47	49	54	57	55	50	50	52	48	46	44	42	44	39	37	25							
20000	47	45	46	52	54	52	46	46	48	43	41	38	34	35	28	24	9							
25000	45	42	43	49	51	49	43	42	44	38	35	31	25	25	16	8								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-5A

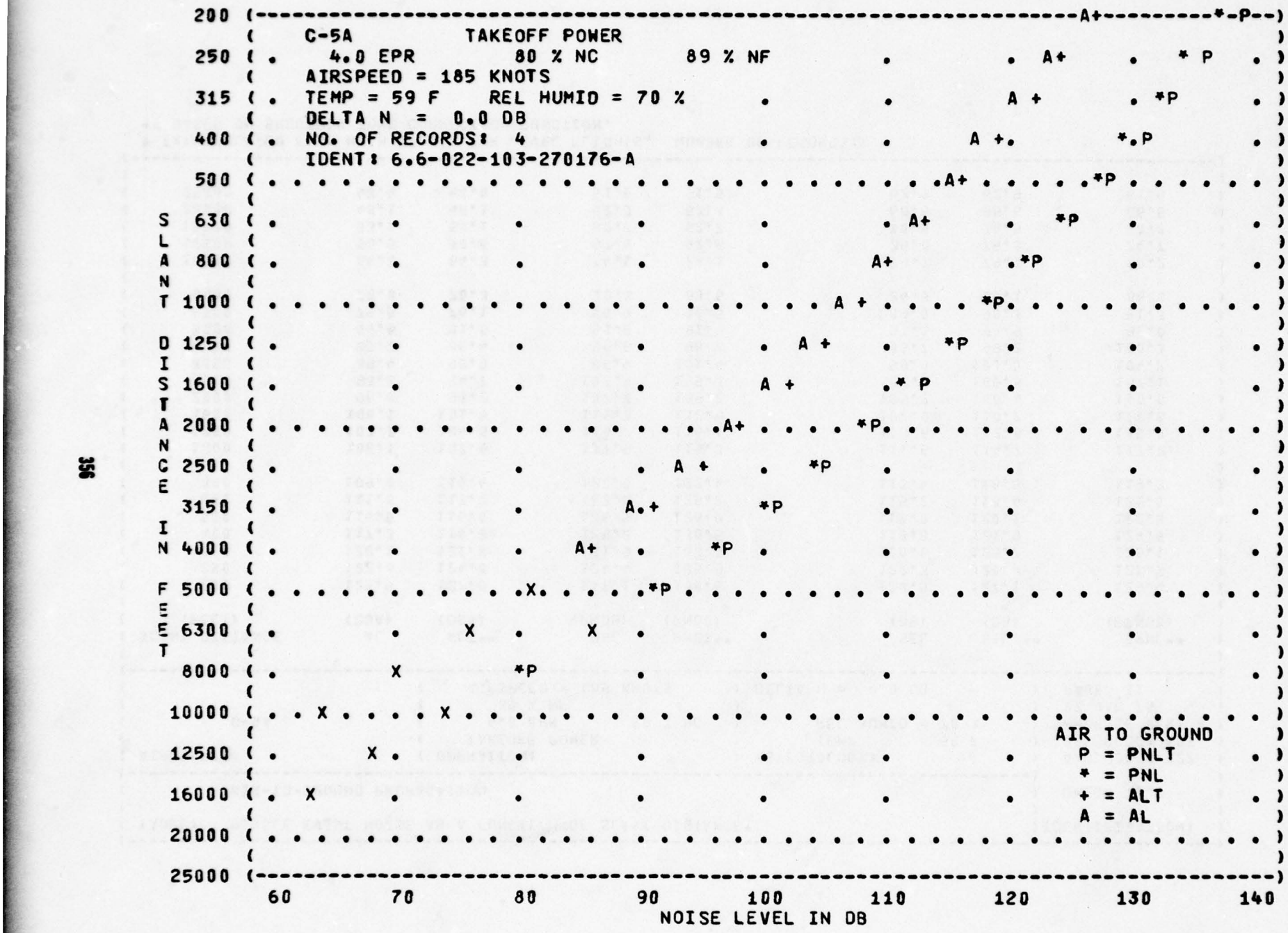
OPERATION:
TAKEOFF POWER
4.0 EPR 80 % NC
89 % NF
AIRSPEED = 185 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 022
OPS CODE: 103
PROFILE VER: A
27 JAN 76
PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	125.5	127.0	137.1	138.6	124.0	127.1	129.4
250	122.8	124.3	134.4	135.9	122.3	125.4	127.7
315	120.1	121.5	131.9	133.3	120.6	123.7	126.1
400	117.3	118.8	129.2	130.6	118.8	121.9	124.5
500	114.5	116.0	126.5	128.0	117.0	120.1	122.8
630	111.8	113.2	123.8	125.2	115.2	118.4	121.1
800	109.0	110.4	120.9	122.4	113.4	116.6	119.2
1000	106.1	107.6	117.9	119.3	111.6	114.7	117.2
1250	103.2	104.6	114.7	116.1	109.6	112.8	115.0
1600	100.1	101.5	111.3	112.8	107.5	110.7	112.6
2000	96.8	98.2	107.7	109.2	105.2	108.4	110.0
2500	93.2	94.7	103.9	105.3	102.7	105.8	107.1
3150	89.4	90.9	99.9	101.4	99.9	103.0	104.2
4000	85.2	86.4	95.6	96.8	96.7	99.2	100.3
5000	80.6	81.5	91.0	91.9	93.1	94.9	96.0
6300	75.5	76.1	85.9	86.5	89.0	90.3	91.3
8000	70.0	70.3	80.3	80.6	84.5	85.1	86.0
10000	64.3	64.3	74.1	74.1	79.7	79.7	80.2
12500	58.5	58.5	67.6	67.6	75.0	75.0	74.7
16000	53.1	53.1	62.7	62.7	70.5	70.5	70.8
20000	48.1	48.1	57.3	57.3	66.6	66.6	66.5
25000	43.4	43.4	51.5	51.5	62.9	62.9	61.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-5A TAKEOFF POWER
4.0 EPR 80 % NC 89 % NF
AIRSPEED = 185 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-022-103-270176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

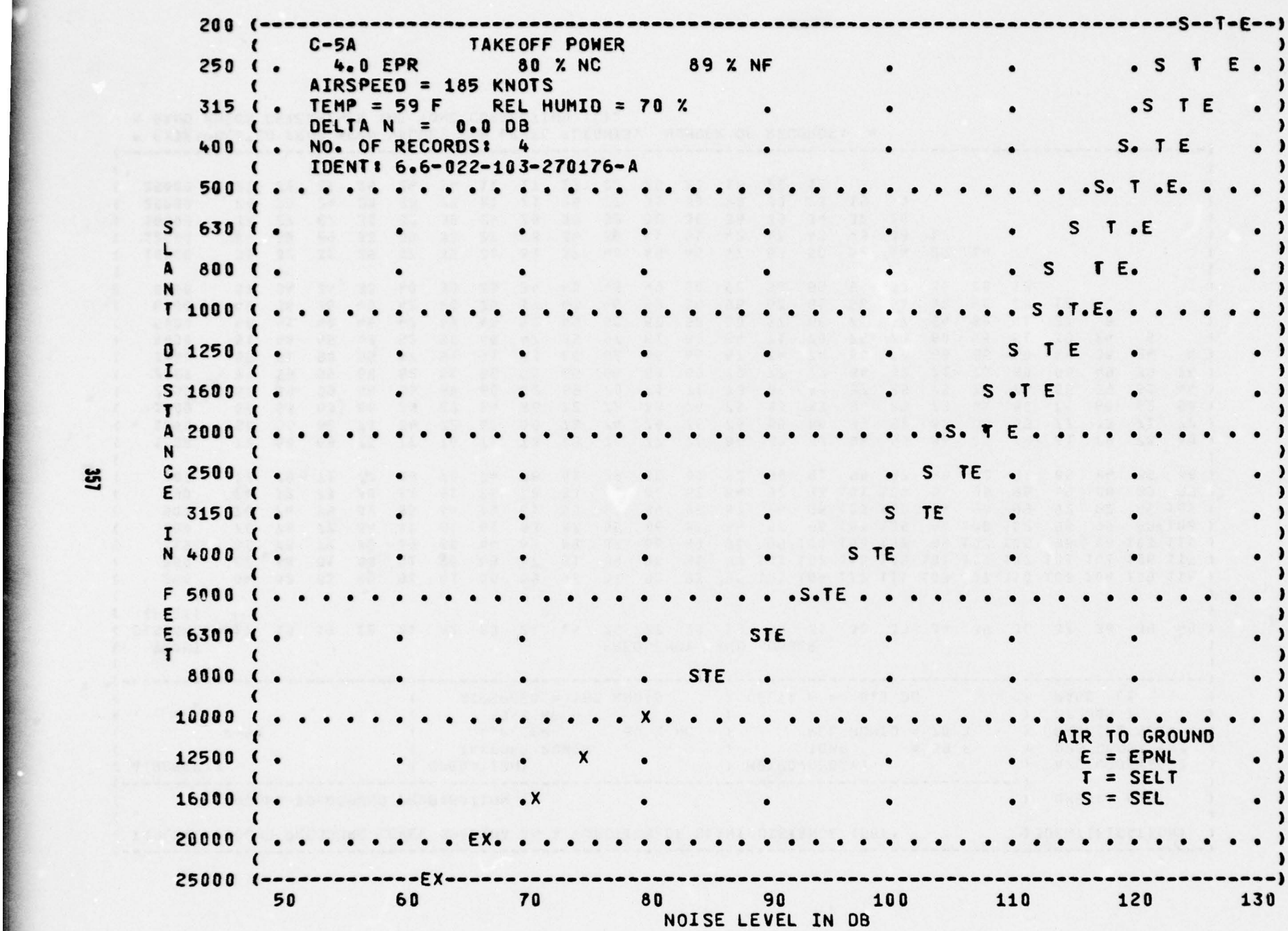

C-5A TAKEOFF POWER
4.0 EPR 80 % NC 89 % NF
AIRSPEED = 185 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-022-103-270176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-5A

OPERATION:
TAKEOFF POWER
4.0 EPR 80 % NC
89 % NF
AIRSPEED = 185 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 022
OPS CODE: 103
PROFILE VER: A
27 JAN 76
PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	84	82	83	90	93	93	88	89	93	91	92	93	95	103	104	112	111	103	107	110	103	104	109	118
250	82	80	81	88	91	90	86	87	91	89	90	91	93	101	102	110	109	101	105	107	101	101	106	115
315	80	78	79	86	89	88	84	85	89	87	88	89	91	99	100	108	107	99	103	105	98	98	103	111
400	78	76	77	84	87	86	81	83	87	85	86	87	89	97	98	105	105	96	100	102	95	95	99	106
500	76	74	75	82	85	84	79	81	85	83	84	85	87	94	95	103	102	94	98	99	92	92	95	101
630	74	72	73	80	82	81	76	78	83	81	82	83	84	92	93	101	100	91	95	96	89	88	90	95
800	72	70	71	77	80	78	74	76	81	79	80	80	82	90	91	98	97	88	92	92	85	84	85	88
1000	70	68	69	75	77	76	71	73	79	76	77	78	80	88	88	96	95	86	88	89<	81	79	78	80
1250	68	66	66	71	74	72	67	69	76	74	75	76	78	85	86	93	92	82	85	85	77	73	71	70
1600	66	63	63	68	70	69	64	66	72	72	73	74	75	83	83	90	89	79	81	80	71	66	62	58
2000	63	59	59	64	66	65	60	62	69	70	71	71	73	80	80	87	85	75	76	74	65	59	52	44
2500	59	55	55	60	62	61	56	58	65	66	68	69	70	77	77	84	82	71	71	68	58	49	39	26
3150	55	51	50	55	57	56	51	53	60	62	65	66	67	74	74	80	77	66	65	60	49	38	24	4
4000	51	46	45	49	52	50	45	47	55	57	61	63	64	71	70	76	73	60	58	51	39	24	5	
5000	46	41	40	45	47	45	40	42	49	52	57	58	60	67	66	71	67	54	50	41	27	8		
6300	40	36	36	40	42	40	35	37	43	46	52	54	56	63	61	66	61	46	40	28	12			
8000	38	34	34	38	40	38	33	34	40	43	49	50	52	58	56	59	53	36	28	12				
10000	36	32	31	35	37	35	30	31	37	40	45	46	47	53	50	52	44	25	14					
12500	34	30	29	33	35	33	27	28	34	36	41	41	42	47	43	43	33	12						
16000	32	27	27	30	32	30	24	25	30	32	36	36	36	39	34	32	20							
20000	29	25	24	28	29	27	21	21	26	27	31	30	28	30	23	19	4							
25000	27	22	21	25	26	24	17	17	22	22	25	23	19	20	11	3								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-5A

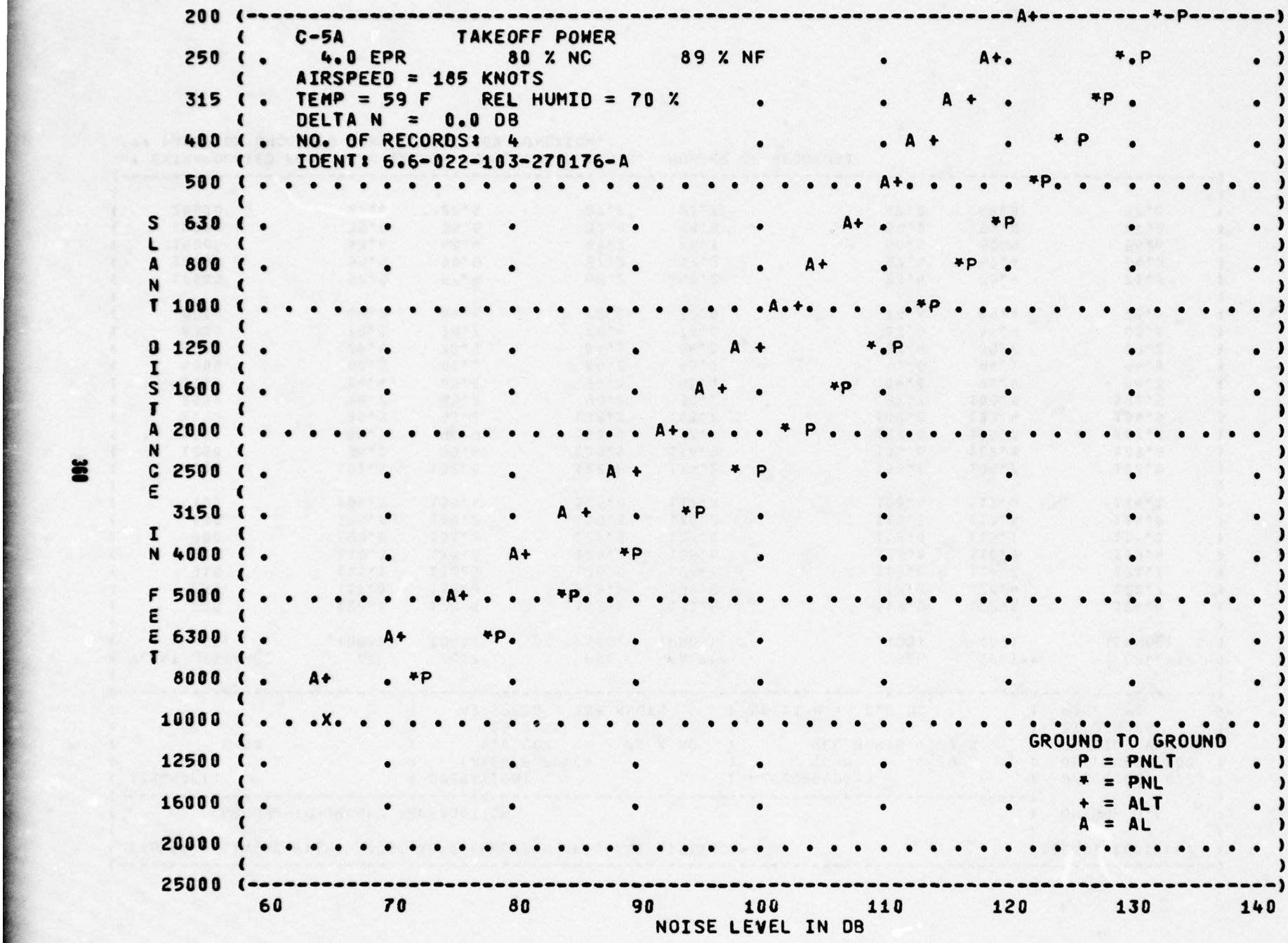
OPERATION:
TAKEOFF POWER
4.0 EPR 80 % NC
89 % NF
AIRSPEED = 185 KNOTS

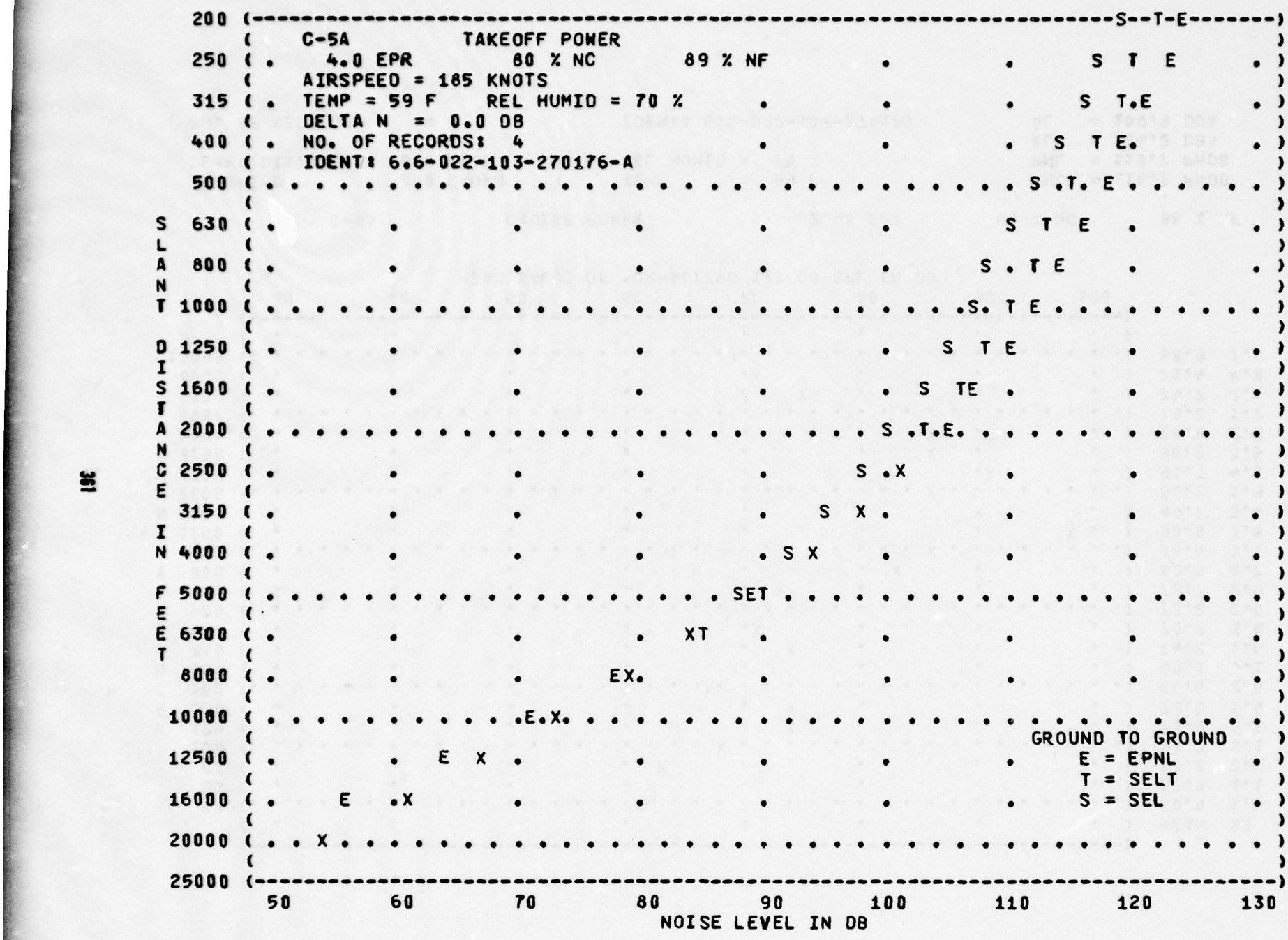
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

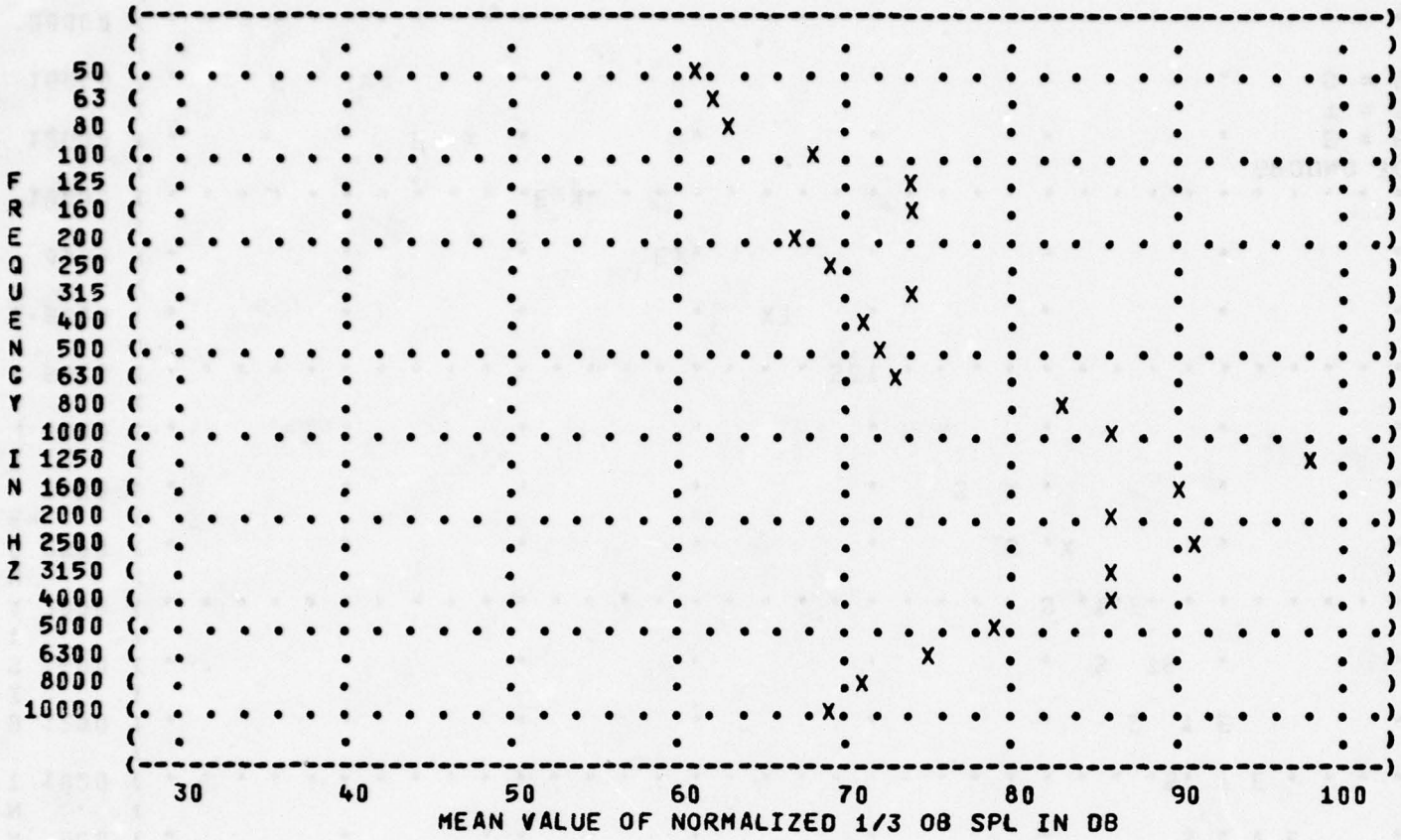
A/C CODE: 022
OPS CODE: 103
PROFILE VER: A
27 JAN 76
PAGE M1

SLANT DISTANCE (FEET)	AL (OBA)	ALT** (OBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	120.5	122.0	132.1	133.6	119.0	122.1	124.4
250	117.8	119.3	129.4	130.9	117.3	120.4	122.7
315	115.1	116.5	126.9	128.3	115.6	118.7	121.1
400	112.3	113.8	124.2	125.6	113.8	116.9	119.4
500	109.5	111.0	121.5	123.0	112.0	115.1	117.8
630	106.8	108.2	118.8	120.2	110.2	113.4	116.0
800	104.0	105.4	115.8	117.3	108.4	111.6	114.1
1000	101.1	102.6	112.8	114.2	106.6	109.7	112.0
1250	98.2	99.6	109.5	110.9	104.6	107.8	109.8
1600	95.1	96.5	106.0	107.5	102.5	105.7	107.3
2000	91.8	93.2	102.3	103.7	100.2	103.4	104.5
2500	88.2	89.7	98.2	99.7	97.7	100.8	101.5
3150	84.4	85.8	94.0	95.4	94.8	98.0	98.3
4000	80.1	81.3	89.3	90.5	91.6	94.1	94.0
5000	75.4	76.3	84.1	85.0	87.9	89.7	89.2
6300	70.1	70.7	78.4	79.0	83.6	84.9	83.8
8000	64.3	64.6	72.2	72.5	78.8	79.4	78.0
10000	57.9	57.9	65.2	65.2	73.4	73.4	71.3
12500	50.9	50.9	57.2	57.2	67.4	67.4	64.3
16000	43.4	43.4	48.3	48.3	60.9	60.9	56.4
20000	35.6	35.6	38.0	38.0	54.0	54.0	47.2
25000	27.6	27.6	27.7	27.7	47.0	47.0	37.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-5A TAKEOFF POWER
4.0 EPR 80 % NC 89 % NF
AIRSPEED = 185 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-022-103-270176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB


C-5A TAKEOFF POWER
4.0 EPR 80 % NC 89 % NF
AIRSPEED = 185 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-022-103-270176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
SET
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB



C-5A CRUISE POWER 2.48 EPR 68 % NC 86 % NF

AIRSPEED = 250 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 4

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-022-104-270176

PNLT = 114.1 PNDB
PNL = 110.7 PNDB
ALT = 104.3 DBA
AL = 100.9 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-5A

OPERATION:
CRUISE POWER
2.48 EPR 68 % NC
86 % NF
AIRSPEED = 250 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
A/C CODE: 022
OPS CODE: 104
PROFILE VER: A
27 JAN 76
PAGE H2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	75	76	77	82	88	88	81	83	89	85	87	88	98	102	114	106	103	109	105	107	101	100	102	108
250	73	74	75	80	86	86	79	81	87	83	85	86	95	100	112	104	101	106	103	104	99	98	99	104
315	71	72	73	78	84	84	77	79	85	81	83	83	93	97	109	102	99	104	100	102	96	95	96	100
400	69	70	71	76	82	82	75	77	82	79	81	81	91	95	107	99	96	102	98	99	93	91	92	95
500	67	68	69	74	80	80	73	75	80	77	79	79	89	93	105	97	94	99	95	96	90	88	88	90
630	65	66	67	72	78	78	71	73	78	75	77	77	87	91	103	95	91	97	92	93	87	84	83	84
800	63	64	65	70	76	76	69	71	76	73	74	75	85	89	100	92	89	94	89	90	83	80	78	77
1000	61	62	63	68	74	74	67	69	74	71	72	73	83	86	98<	90	86	91	86	86	79	75	71	69
1250	59	60	61	66	72	72	65	67	72	69	70	70	80	84	95	87	83	88	83	82	75	69	64	59
1600	57	58	59	64	70	70	62	65	70	66	68	68	78	81	93	84	80	84	79	77	69	62	55	47
2000	55	56	57	62	68	68	60	63	68	64	65	66	75	79	90	81	77	80	74	71	63	54	45	32
2500	53	54	55	59	66	65	58	60	65	62	63	63	72	76	87	78	73	76	69	65	56	45	32	14
3150	51	52	53	57	63	63	56	58	63	59	60	60	70	73	83	74	69	71	63	57	47	33	16	
4000	49	50	51	55	61	61	54	56	61	57	58	58	67	69	80	70	64	65	56	48	37	20		
5000	47	48	49	53	59	59	51	53	58	54	55	55	63	66	76	65	58	59	47	37	24	3		
6300	44	45	47	51	57	56	49	51	55	51	52	51	59	62	71	59	52	51	37	24	9			
8000	42	43	44	49	55	54	46	48	53	48	48	47	55	57	65	53	44	41	25	8				
10000	40	41	42	46	52	51	44	45	50	45	45	43	51	51	59	45	35	30	11					
12500	38	39	40	44	50	49	41	42	46	41	41	39	45	45	52	36	24	16						
16000	36	36	37	41	47	46	38	39	43	37	36	33	39	38	43	25	11							
20000	33	34	35	39	44	43	34	35	39	32	31	27	31	29	32	12								
25000	31	31	32	36	41	40	31	31	34	27	24	20	23	18	19									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: C-5A

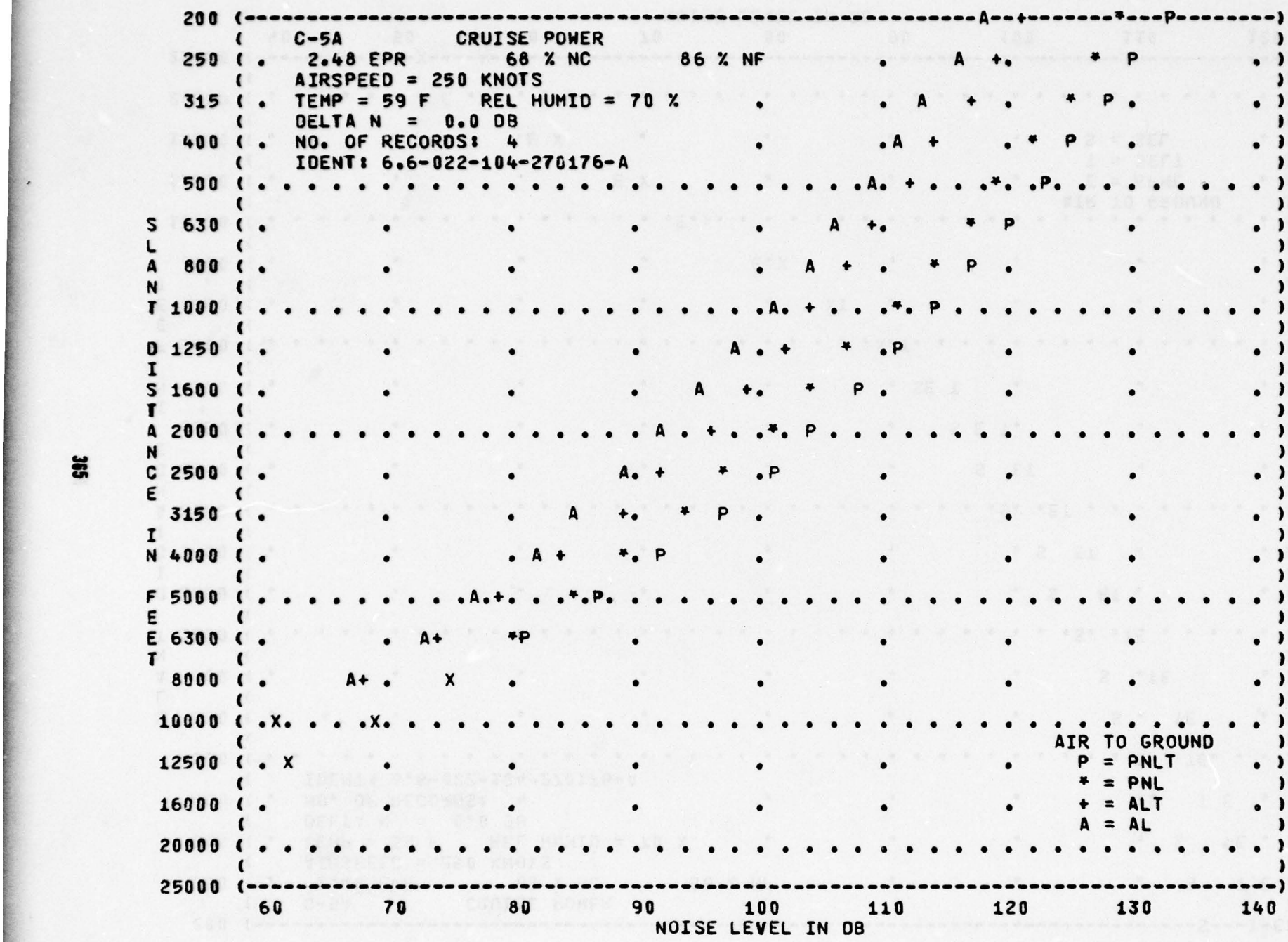
OPERATION: CRUISE POWER, 2.48 EPR, 68 % NC, 86 % NF, AIRSPEED = 250 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 022
OPS CODE: 104
PROFILE VER: A
27 JAN 76
PAGE I2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	118.0	121.4	129.3	132.6	115.3	119.4	121.1
250	115.7	119.1	127.0	130.3	114.1	118.1	119.8
315	113.4	116.8	124.6	127.9	112.7	116.8	118.4
400	111.1	114.4	122.1	125.4	111.4	115.4	116.9
500	108.6	112.0	119.4	122.8	109.9	114.0	115.3
630	106.2	109.5	116.7	120.0	108.5	112.5	113.6
800	103.6	106.9	113.8	117.1	106.9	111.0	111.7
1000	100.9	104.3	110.7	114.1	105.3	109.3	109.6
1250	98.2	101.5	107.5	110.8	103.5	107.6	107.3
1600	95.3	98.6	104.3	107.6	101.6	105.6	105.1
2000	92.2	95.5	100.9	104.3	99.5	103.6	102.8
2500	88.9	92.2	97.4	100.7	97.2	101.3	100.2
3150	85.4	88.7	93.6	96.9	94.7	98.8	97.4
4000	81.5	84.2	89.5	92.1	91.8	95.1	93.5
5000	77.3	79.3	85.0	87.0	88.6	91.0	89.2
6300	72.5	73.9	80.1	81.4	84.9	86.5	84.5
8000	67.2	67.9	74.7	75.4	80.5	81.3	79.3
10000	61.1	61.1	68.7	68.7	75.4	75.4	73.5
12500	54.3	54.3	61.9	61.9	69.6	69.6	67.7
16000	46.9	46.9	54.1	54.1	63.2	63.2	60.9
20000	39.6	39.6	46.1	46.1	56.9	56.9	53.9
25000	33.5	33.5	39.1	39.1	51.8	51.8	47.9

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-5A CRUISE POWER
2.48 EPR 68 % NC 86 % NF
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-022-104-270176-A
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

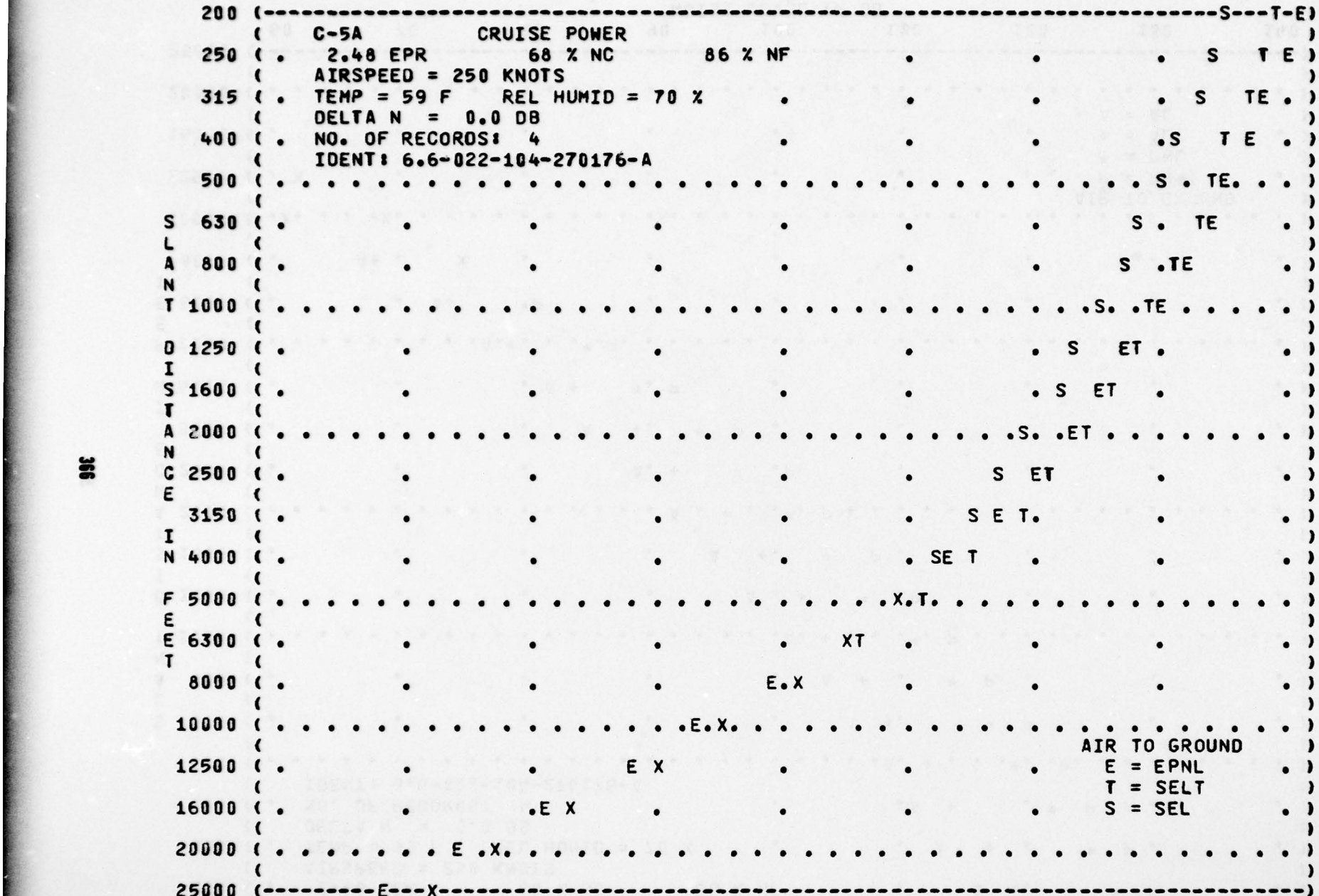

C-5A CRUISE POWER
2.48 EPR 68 % NC 86 % NF
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-022-104-270176-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: C-5A

OPERATION: CRUISE POWER 2.48 EPR 68 % NC 86 % NF AIRSPEED = 250 KNOTS

METEOROLOGY: TEMP = 59 F REL HUMID = 70 % DELTA N = 0.0 DB

A/C CODE: 022 OPS CODE: 104 PROFILE VER: A 27 JAN 76 PAGE L2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																						
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	70	71	72	77	83	83	76	78	84	80	82	83	93	97	109	101	98	104	100	102	96	95	97	103
250	68	69	70	75	81	81	74	76	82	78	80	81	90	95	107	99	96	101	98	99	94	93	94	99
315	66	67	68	73	79	79	72	74	80	76	78	78	88	92	104	97	94	99	95	97	91	90	91	95
400	64	65	66	71	77	77	70	72	77	74	76	76	86	90	102	94	91	97	93	94	88	86	87	90
500	62	63	64	69	75	74	67	70	75	72	74	74	84	88	100	92	89	94	90	91	85	83	83	85
630	60	61	62	67	72	72	65	68	73	70	72	72	82	86	98	90	86	92	87	88	82	79	78	79
800	58	59	60	64	70	69	62	65	71	68	69	70	80	84	95	87	84	89	84	85	78	75	73	72
1000	56	57	58	61	67	66	59	62	69	66	67	68	78	81	93<	85	81	86	81	81	74	70	66	64
1250	54	55	55	58	64	63	56	59	66	64	65	65	75	79	90	82	78	83	78	77	70	64	59	54
1600	52	52	52	55	60	59	52	55	63	61	63	63	73	76	88	79	75	79	74	72	64	57	50	42
2000	49	48	48	51	56	56	48	51	59	59	60	61	70	74	85	76	72	75	69	66	58	49	40	27
2500	45	44	44	47	52	51	44	47	55	55	58	58	67	71	82	73	68	71	64	60	51	40	27	9
3150	41	40	39	42	47	46	39	42	51	51	54	55	65	68	78	69	64	66	58	52	42	28	11	
4000	37	35	34	36	41	41	33	36	46	46	51	52	62	64	75	65	59	60	51	43	32	15		
5000	31	30	29	32	37	36	28	31	39	41	46	48	58	61	71	60	53	54	42	32	19			
6300	26	25	25	27	32	31	23	26	33	35	42	43	53	57	66	54	47	46	32	19	4			
8000	24	23	22	25	30	28	21	23	31	32	38	39	49	52	60	48	39	36	20	3				
10000	22	21	20	22	27	26	18	20	28	29	35	35	45	46	54	40	30	25	6					
12500	20	19	18	20	25	23	15	17	24	25	31	31	39	40	47	31	19	11						
16000	18	16	15	17	22	20	12	14	21	21	26	25	33	33	38	20	6							
20000	15	14	13	15	19	17	9	10	17	16	21	19	25	24	27	7								
25000	13	11	10	12	16	14	5	6	12	11	14	12	17	13	14									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-5A

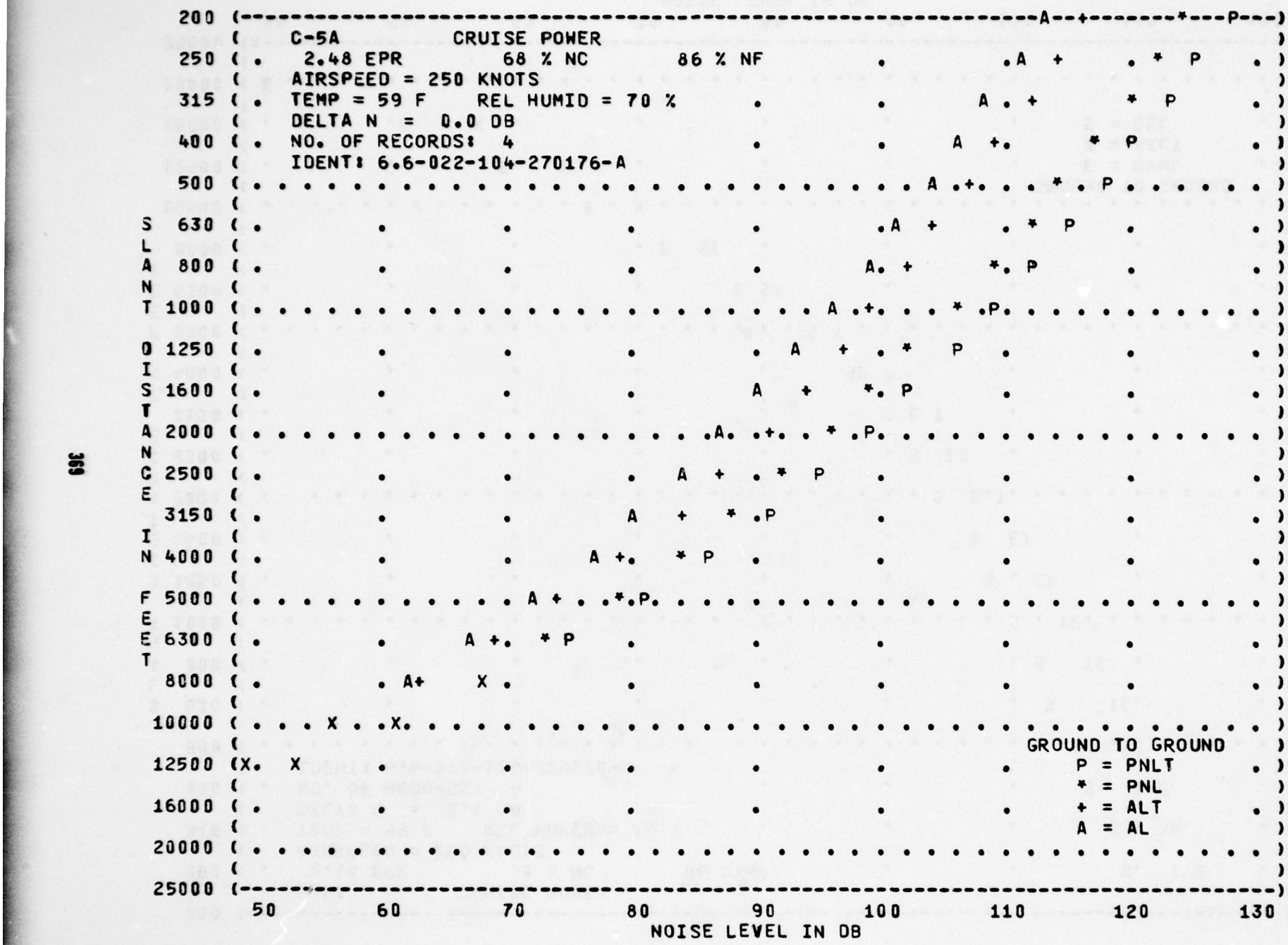
OPERATION:
CRUISE POWER
2.48 EPR 68 % NC
86 % NF
AIRSPEED = 250 KNOTS

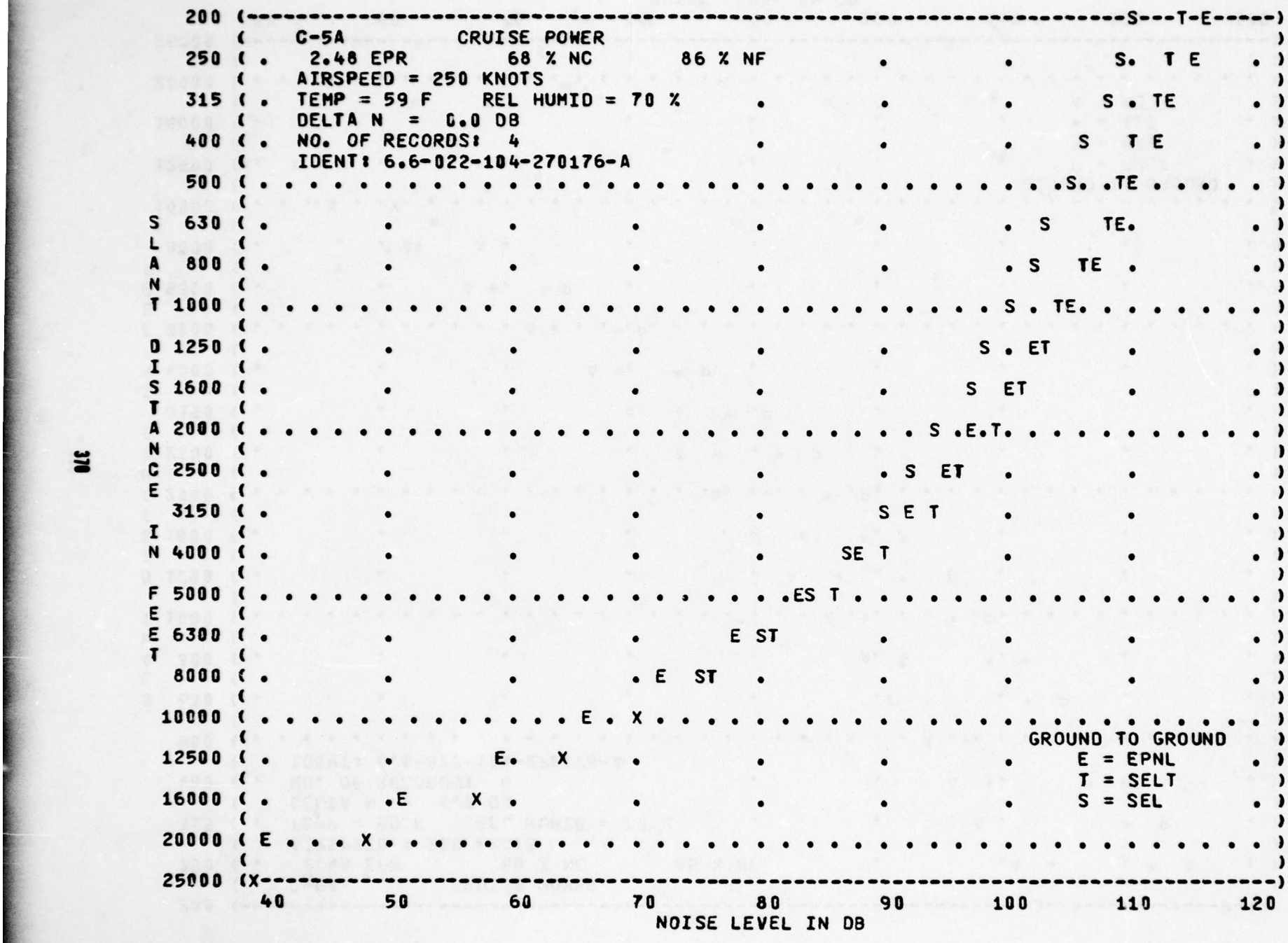
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

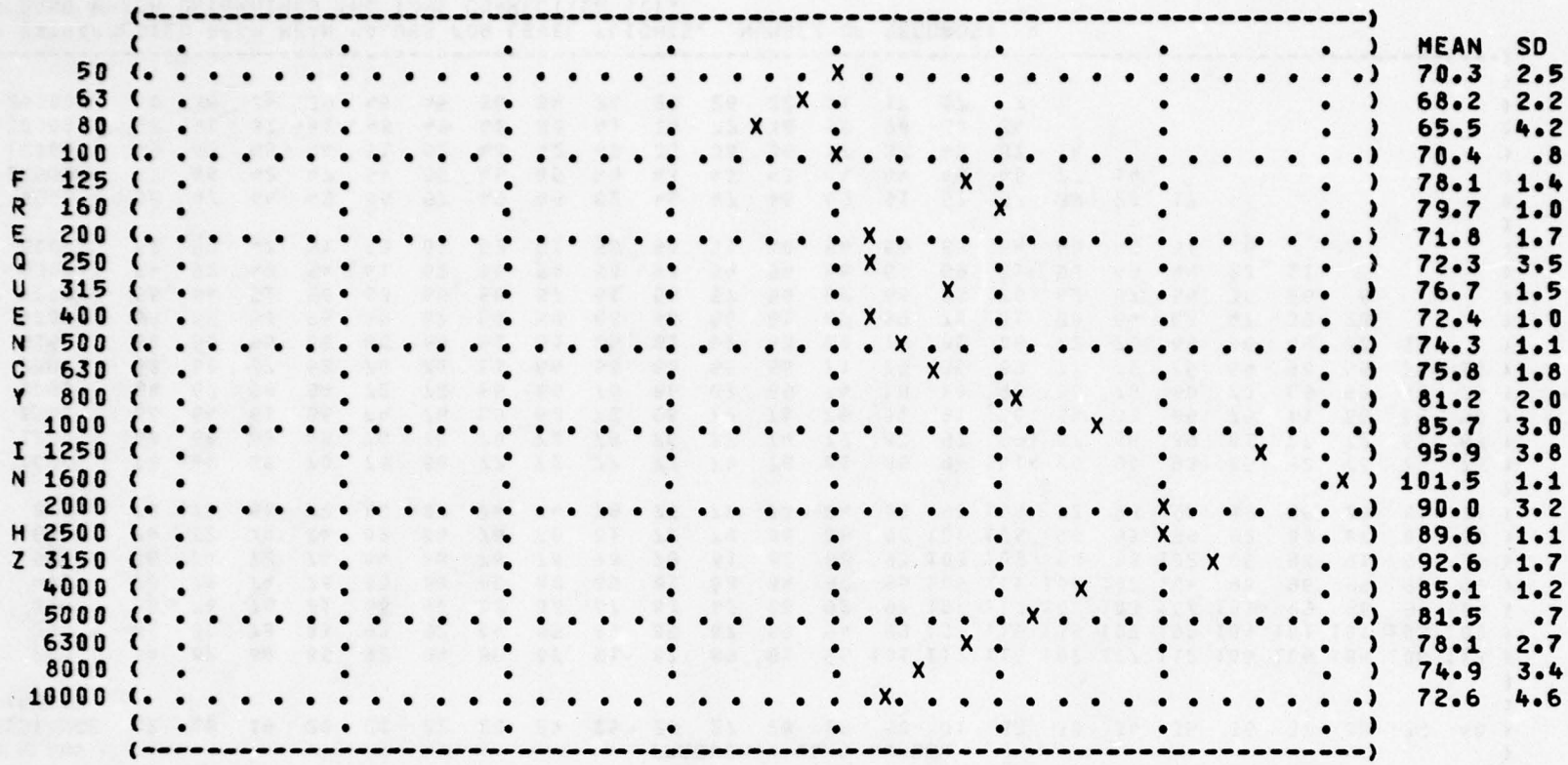
A/C CODE: 022
OPS CODE: 104
PROFILE VER: A
27 JAN 76
PAGE M2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	113.0	116.4	124.3	127.6	110.3	114.4	116.1
250	110.7	114.1	122.0	125.3	109.1	113.1	114.8
315	108.4	111.8	119.6	122.9	107.7	111.8	113.4
400	106.1	109.4	117.0	120.4	106.4	110.4	111.9
500	103.6	107.0	114.4	117.8	104.9	109.0	110.3
630	101.2	104.5	111.7	115.0	103.5	107.5	108.5
800	98.6	101.9	108.7	112.1	101.9	106.0	106.6
1000	95.9	99.3	105.7	109.0	100.2	104.3	104.5
1250	93.2	96.5	102.3	105.7	98.5	102.6	102.2
1600	90.3	93.6	99.0	102.4	96.6	100.6	99.9
2000	87.2	90.5	95.6	98.9	94.5	98.6	97.4
2500	83.9	87.2	91.9	95.2	92.2	96.3	94.8
3150	80.4	83.7	87.9	91.2	89.7	93.7	91.8
4000	76.5	79.2	83.5	86.2	86.8	90.1	87.6
5000	72.2	74.2	78.8	80.8	83.5	86.0	83.0
6300	67.4	68.8	73.4	74.8	79.7	81.4	77.8
8000	62.0	62.7	67.7	68.3	75.3	76.2	72.2
10000	55.9	55.9	61.1	61.1	70.2	70.2	65.8
12500	48.7	48.7	53.5	53.5	64.0	64.0	59.2
16000	40.5	40.5	44.3	44.3	56.8	56.8	51.1
20000	31.1	31.1	31.9	31.9	48.4	48.4	39.7
25000	20.9	20.9	7.7	7.7	39.2	39.2	16.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-5A CRUISE POWER
2.48 EPR 68 % NC 86 % NF
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-022-104-270176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


C-5A CRUISE POWER
2.48 EPR 68 % NC 86 % NF
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-022-104-270176-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB



C-5A APPROACH POWER 2.99 EPR 68 % NC 83 % NF

AIRSPEED = 150 KNOTS
SLANT DISTANCE = 1000 FEET
NO. OF RECORDS = 4

TEMP = 59 F
REL HUMID = 70 %
IDENT: 6.6-022-105-270176

PNLT = 118.4 PNDB
PNL = 115.3 PNDB
ALT = 107.6 DBA
AL = 104.5 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: C-5A

OPERATION: APPROACH POWER, 2.99 EPR, 68 % NC, 83 % NF, AIRSPEED = 150 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 022
OPS CODE: 105
PROFILE VER: A
27 JAN 76
PAGE H3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	84	82	80	85	92	94	86	87	91	87	89	91	96	101	112	118	107	107	112	106	104	104	106	112
250	82	80	78	83	90	92	84	85	89	85	87	89	94	99	109	115	105	105	109	104	101	101	103	108
315	80	78	76	81	88	90	82	83	87	83	85	86	92	97	107	113	102	103	107	101	99	98	99	104
400	78	76	74	78	86	88	80	80	85	81	83	84	90	95	105	111	100	100	104	98	96	95	96	99
500	76	74	72	76	84	86	78	78	83	79	81	82	88	93	103	109	98	98	102	95	93	91	92	94
630	74	72	70	74	82	84	76	76	81	77	79	80	86	90	101	106	95	95	99	92	89	87	87	88
800	72	70	68	72	80	82	74	74	79	75	76	78	84	88	98	104	93	93	96	89	86	83	81	81
1000	70	68	65	70	78	80	72	72	77	72	74	76	81	86	96	101<	90	90	93	85	82	78	75	73
1250	68	66	63	68	76	78	70	70	75	70	72	74	79	83	93	99	87	86	89	81	77	72	67	63
1600	66	64	61	66	74	76	68	68	72	68	70	71	76	81	91	96	84	83	85	76	71	66	59	50
2000	64	62	59	64	72	73	65	66	70	66	67	69	74	78	88	93	80	79	80	70	65	58	48	36
2500	62	60	57	62	70	71	63	64	68	63	65	66	71	75	85	89	77	75	75	64	58	48	35	18
3150	60	58	55	60	68	69	61	61	66	61	62	63	68	72	81	86	72	70	69	56	49	37	19	
4000	58	56	53	58	65	67	59	59	63	58	60	61	65	69	78	81	68	64	62	47	39	23		
5000	56	54	51	56	63	65	56	57	61	56	57	58	62	65	73	76	62	57	54	36	26	6		
6300	54	52	49	54	61	62	54	54	58	53	54	54	58	61	69	71	55	49	44	23	11			
8000	52	50	47	51	59	60	52	51	55	50	50	50	54	56	63	64	48	40	31	6				
10000	50	47	44	49	56	57	49	49	52	46	47	46	49	51	57	57	39	28	17					
12500	47	45	42	47	54	55	46	45	49	43	43	42	44	44	49	48	27	14						
16000	45	43	40	44	51	52	43	42	45	39	38	36	37	37	40	37	14							
20000	43	40	37	41	48	49	40	38	41	34	32	30	30	28	30	24								
25000	40	38	34	39	45	45	36	34	36	28	26	22	21	17	17	7								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: C-5A

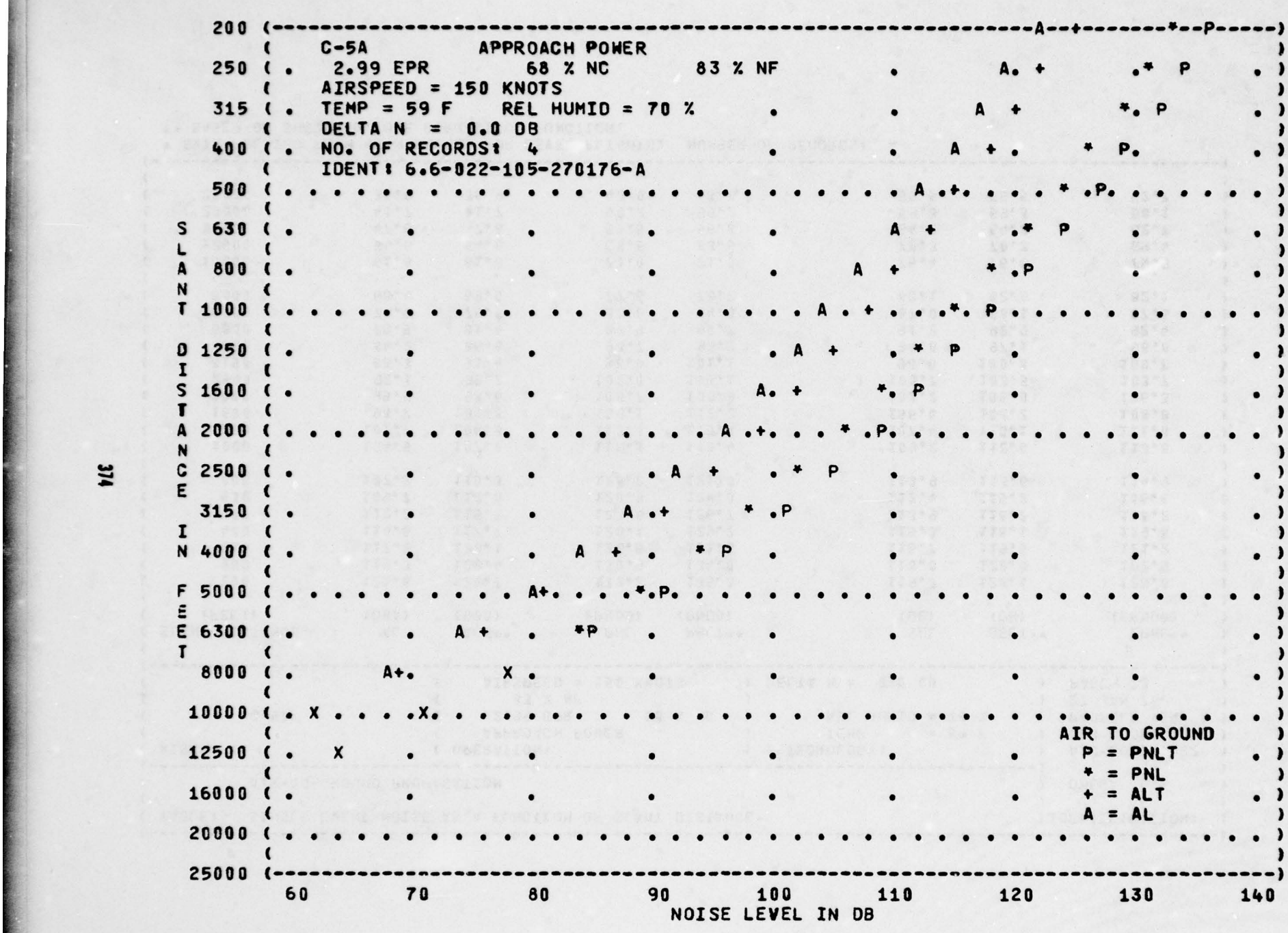
OPERATION: APPROACH POWER, 2.99 EPR, 68 % NC, 83 % NF, AIRSPEED = 150 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 022
OPS CODE: 105
PROFILE VER: A
27 JAN 76
PAGE I3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	121.6	124.7	133.2	136.3	119.3	122.1	123.8
250	119.3	122.4	130.9	134.0	118.0	120.8	122.5
315	117.0	120.1	128.5	131.6	116.7	119.5	121.2
400	114.6	117.7	126.1	129.2	115.3	118.1	119.8
500	112.2	115.3	123.6	126.7	113.9	116.7	118.2
630	109.7	112.8	120.9	124.0	112.4	115.2	116.6
800	107.2	110.3	118.2	121.3	110.9	113.6	114.9
1000	104.5	107.6	115.3	118.4	109.2	112.0	113.0
1250	101.7	104.8	112.3	115.4	107.4	110.1	111.0
1600	98.7	101.8	109.1	112.2	105.4	108.2	108.8
2000	95.5	98.6	105.7	108.8	103.2	106.0	106.3
2500	92.1	95.2	102.0	105.1	100.7	103.5	103.7
3150	88.3	91.4	98.0	101.1	98.0	100.8	100.7
4000	84.2	86.6	93.7	96.2	94.8	97.1	96.8
5000	79.5	81.4	88.9	90.7	91.2	92.9	92.4
6300	74.3	75.5	83.6	84.8	87.0	88.1	87.6
8000	68.4	69.0	77.6	78.2	82.1	82.6	82.1
10000	61.8	61.8	71.0	71.0	76.4	76.4	75.9
12500	54.6	54.6	63.5	63.5	70.3	70.3	69.4
16000	47.6	47.6	55.8	55.8	64.2	64.2	62.7
20000	41.7	41.7	50.2	50.2	59.3	59.3	58.1
25000	36.9	36.9	43.8	43.8	55.5	55.5	52.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-5A APPROACH POWER
2.99 EPR 68 % NC 83 % NF
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-022-105-270176-A
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

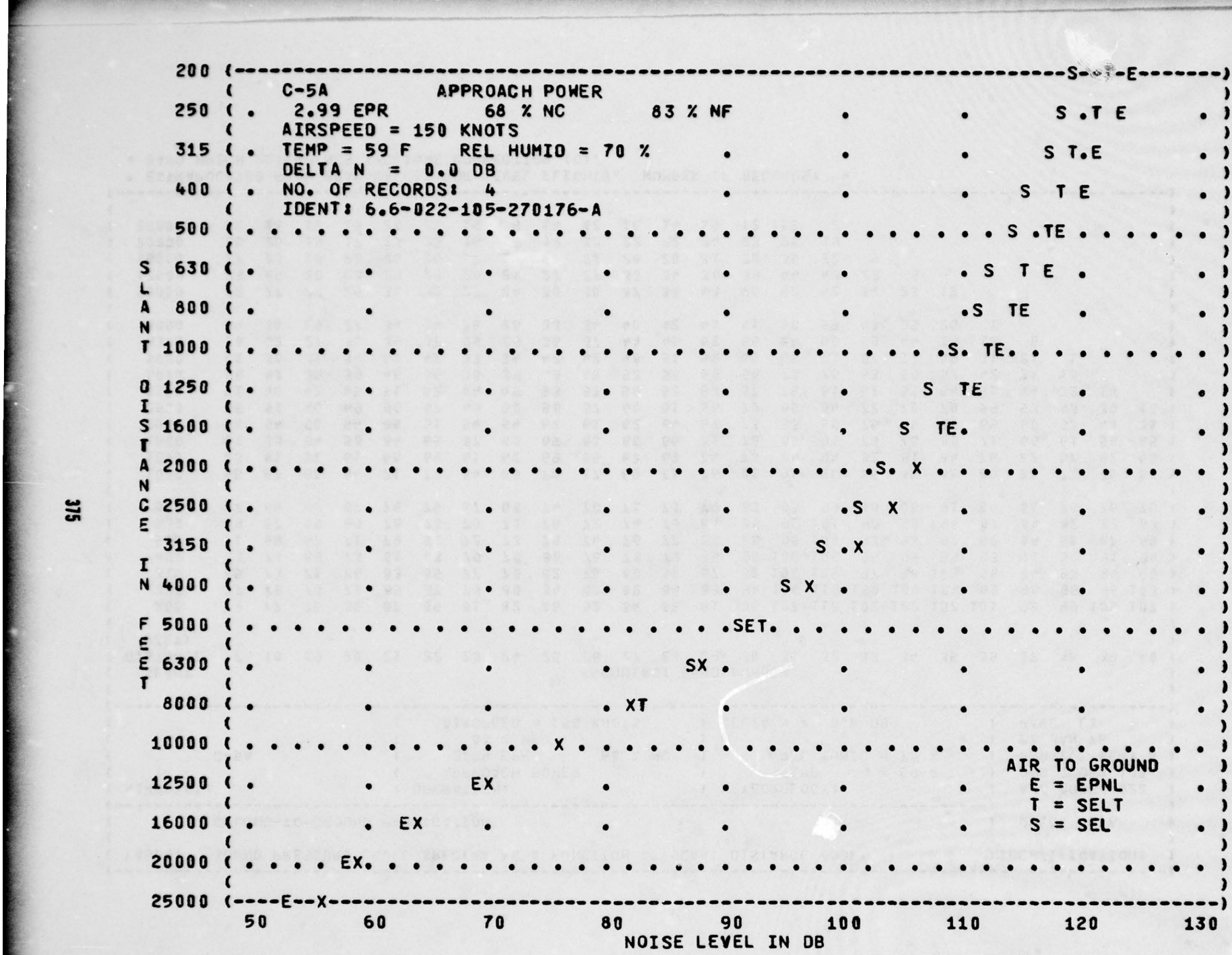

C-5A APPROACH POWER
2.99 EPR 68 % NC 83 % NF
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-022-105-270176-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-5A

OPERATION:
APPROACH POWER
2.99 EPR 68 % NC
83 % NF
AIRSPEED = 150 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 022
OPS CODE: 105
PROFILE VER: A
27 JAN 76
PAGE L3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																								
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	79	77	75	80	87	89	81	82	86	82	84	86	91	96	107	113	102	102	107	101	99	99	101	107
250	77	75	73	78	85	87	79	80	84	80	82	84	89	94	104	110	100	100	104	99	96	96	98	103
315	75	73	71	76	83	85	77	78	82	78	80	81	87	92	102	108	97	98	102	96	94	93	94	99
400	73	71	69	73	81	83	75	75	80	76	78	79	85	90	100	106	95	95	99	93	91	90	91	94
500	71	69	67	71	79	80	72	73	78	74	76	77	83	88	98	104	93	93	97	90	88	86	87	89
630	69	67	65	69	76	78	70	71	76	72	74	75	81	85	96	101	90	90	94	87	84	82	82	83
800	67	65	63	67	74	75	67	68	74	70	71	73	79	83	93	99	88	88	91	84	81	78	76	76
1000	65	63	60	64	71	72	64	65	72	67	69	71	76	81	91	96<	85	85	88	80	77	73	70	68
1250	63	61	57	61	68	69	61	62	69	65	67	69	74	78	88	94	82	81	84	76	72	67	62	58
1600	61	58	54	58	64	65	57	58	65	63	65	66	71	76	86	91	79	78	80	71	66	61	54	45
2000	58	54	50	54	60	61	54	54	62	61	62	64	69	73	83	88	75	74	75	65	60	53	43	31
2500	55	50	46	49	56	57	49	50	58	57	60	61	66	70	80	84	72	70	70	59	53	43	30	13
3150	51	46	42	45	51	52	44	45	53	53	56	58	63	67	76	81	67	65	64	51	44	32	14	
4000	46	41	36	39	46	46	38	39	48	48	53	55	60	64	73	76	63	59	57	42	34	18		
5000	41	36	31	34	41	42	33	34	42	42	48	51	56	60	68	71	57	52	49	31	21	1		
6300	36	32	27	30	36	37	29	29	36	37	44	46	52	56	64	66	50	44	39	18	6			
8000	34	30	25	27	34	34	26	26	33	34	40	42	48	51	58	59	43	35	26	1				
10000	32	27	22	25	31	32	23	24	30	30	37	38	43	46	52	52	34	23	12					
12500	29	25	20	23	29	29	20	20	27	27	33	34	38	39	44	43	22	9						
16000	27	23	18	20	26	26	17	17	23	23	28	28	31	32	35	32	9							
20000	25	20	15	17	23	23	14	13	19	18	22	22	24	23	25	19								
25000	22	18	12	15	20	20	10	9	14	12	16	14	15	12	12	2								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-5A

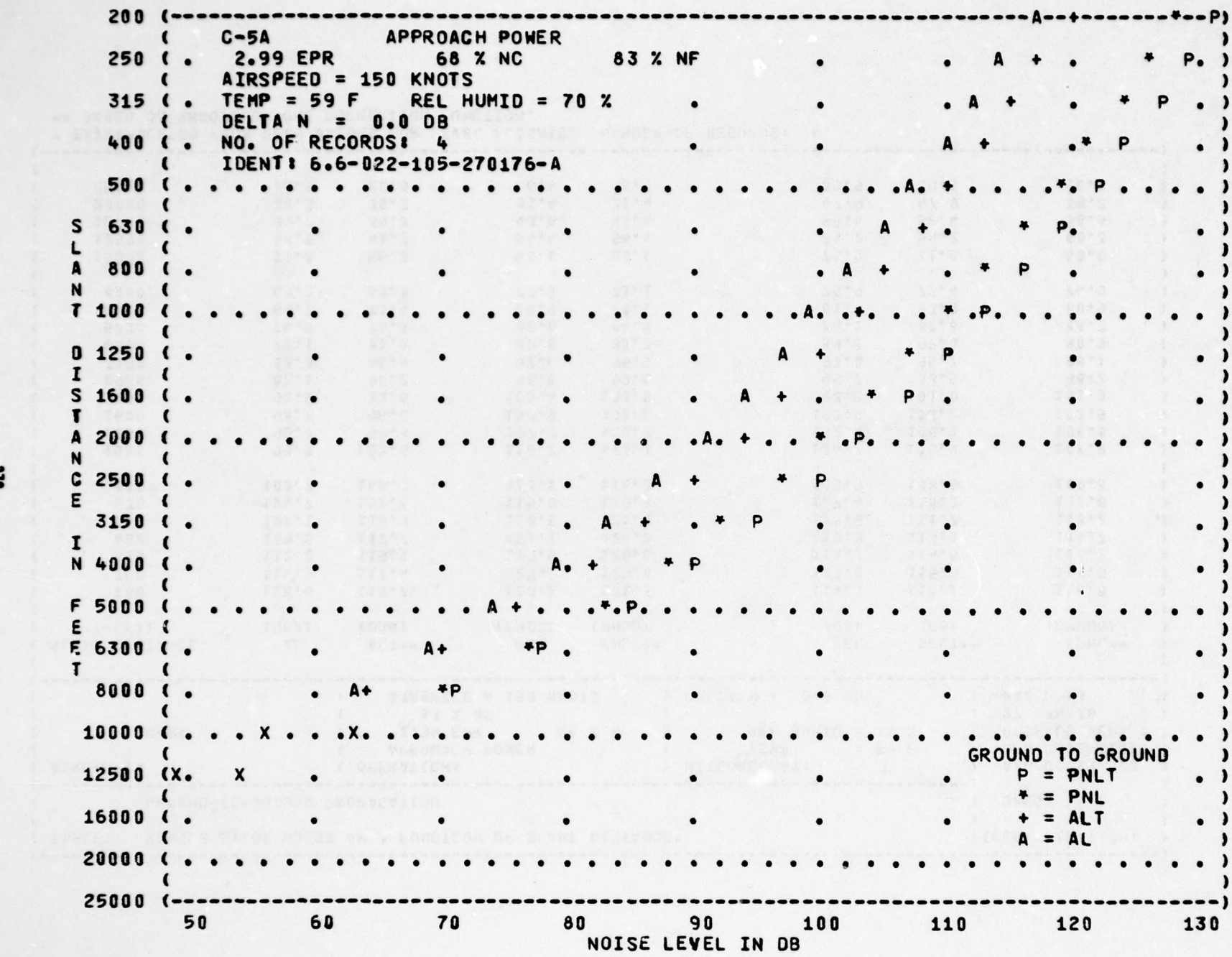
OPERATION:
APPROACH POWER
2.99 EPR 68 % NC
83 % NF
AIRSPEED = 150 KNOTS

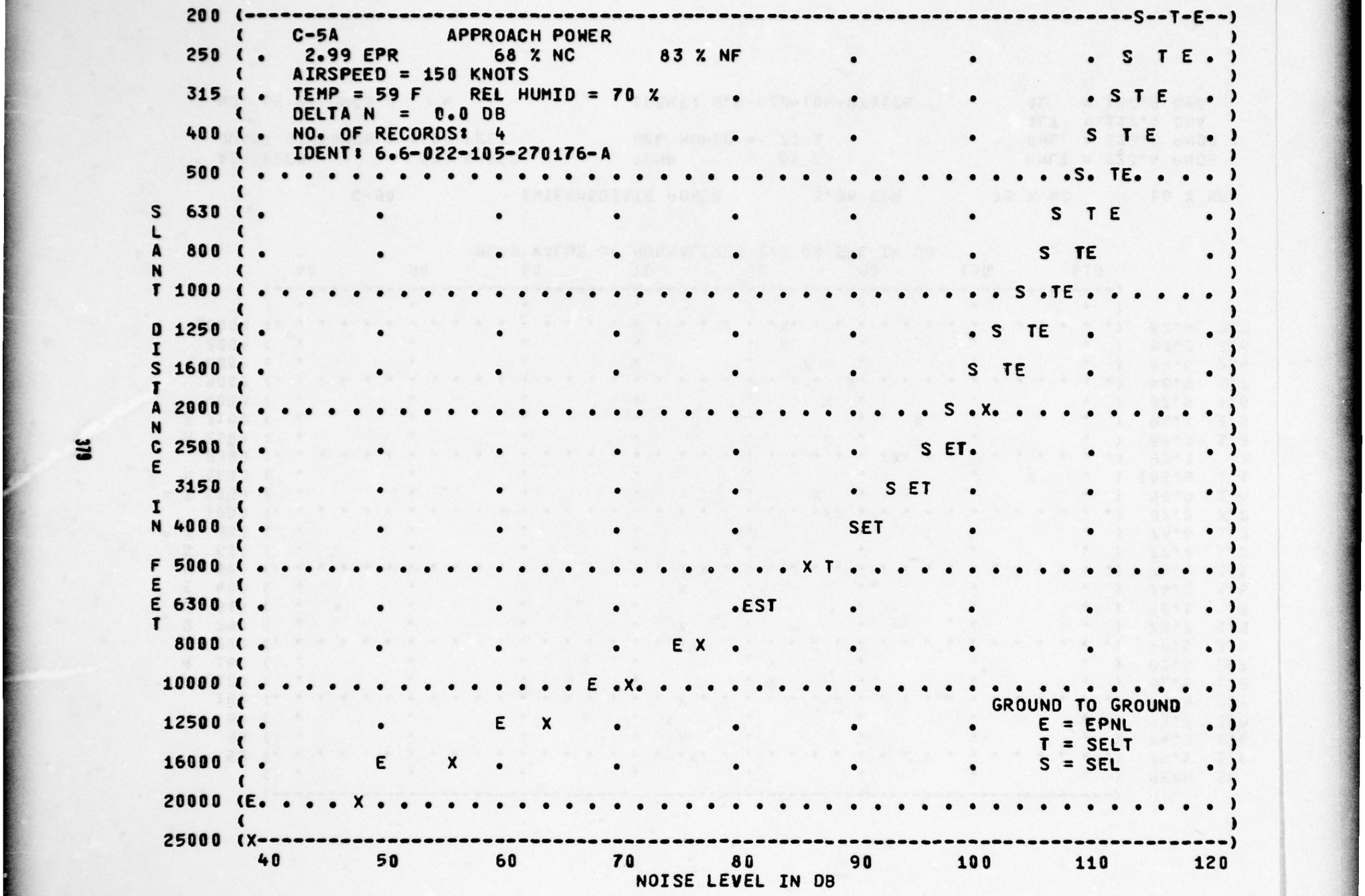
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

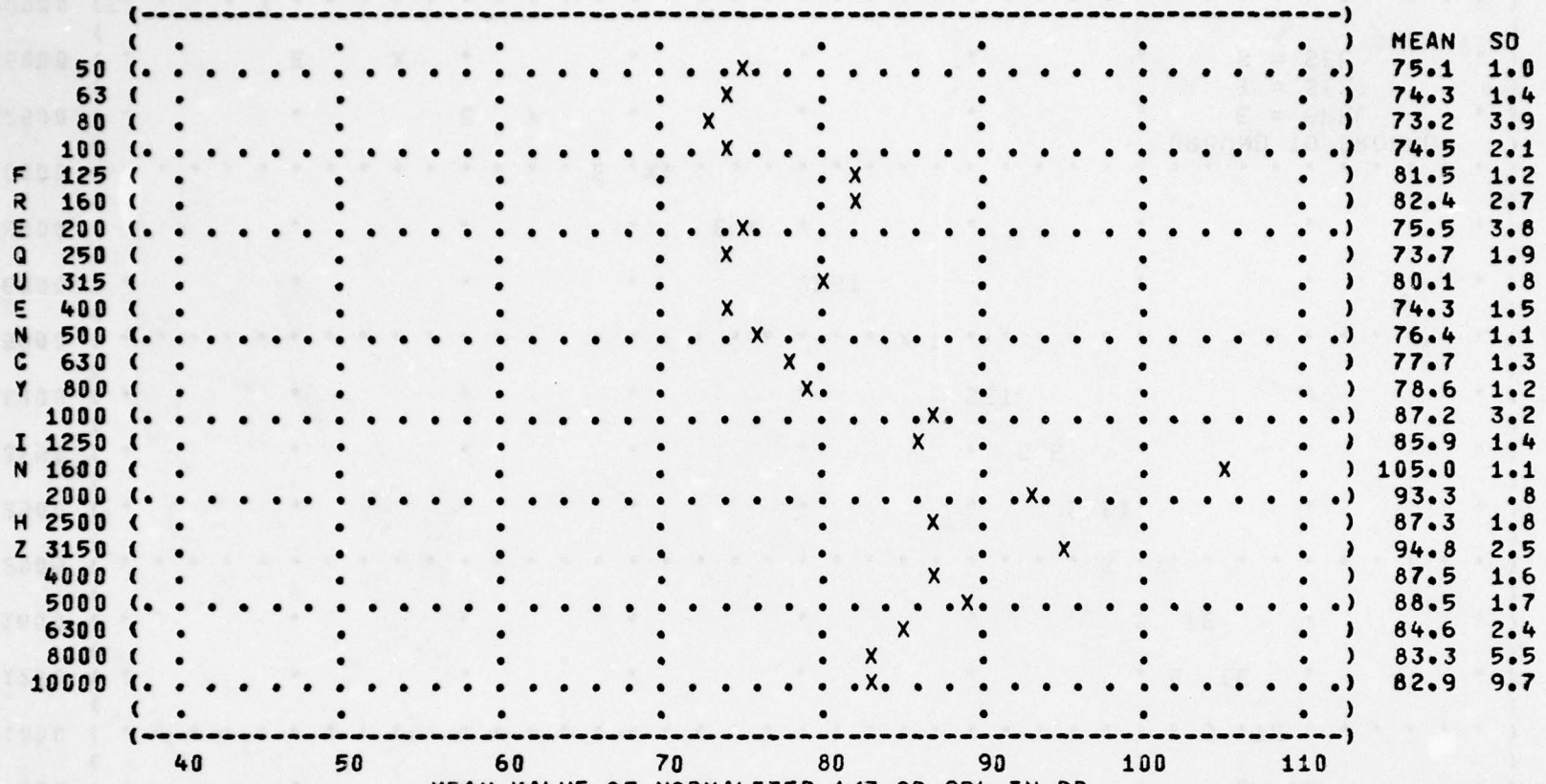
A/C CODE: 022
OPS CODE: 105
PROFILE VER: A
27 JAN 76
PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	116.6	119.7	128.2	131.3	114.3	117.1	118.8
250	114.3	117.4	125.9	129.0	113.0	115.8	117.5
315	112.0	115.1	123.5	126.6	111.7	114.5	116.2
400	109.6	112.7	121.1	124.2	110.3	113.1	114.7
500	107.2	110.3	118.5	121.6	108.9	111.7	113.2
630	104.7	107.8	115.9	119.0	107.4	110.2	111.6
800	102.2	105.3	113.1	116.2	105.9	108.6	109.8
1000	99.5	102.6	110.2	113.3	104.2	106.9	107.9
1250	96.7	99.8	107.2	110.3	102.4	105.1	105.8
1600	93.7	96.8	103.9	107.0	100.4	103.2	103.5
2000	90.5	93.6	100.4	103.5	98.2	101.0	101.0
2500	87.1	90.2	96.5	99.6	95.7	98.5	98.2
3150	83.3	86.4	92.4	95.5	93.0	95.7	95.1
4000	79.1	81.6	87.8	90.2	89.8	92.0	90.9
5000	74.5	76.3	82.6	84.5	86.1	87.8	86.2
6300	69.2	70.4	76.9	78.1	81.9	83.0	80.9
8000	63.2	63.8	70.5	71.1	76.9	77.4	74.9
10000	56.3	56.3	63.1	63.1	71.0	71.0	68.0
12500	48.5	48.5	54.4	54.4	64.2	64.2	60.3
16000	39.7	39.7	43.6	43.6	56.4	56.4	50.5
20000	30.3	30.3	31.4	31.4	47.9	47.9	39.3
25000	20.8	20.8	6.9	6.9	39.5	39.5	15.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-5A APPROACH POWER
2.99 EPR 68 % NC 83 % NF
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-022-105-270176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


C-5A APPROACH POWER
2.99 EPR 68 % NC 83 % NF
AIRSPEED = 150 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-022-105-270176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



C-5A INTERMEDIATE POWER 3.38 EPR 75 % NC 86 % NF

AIRSPEED = 130 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 4

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-022-106-270176

PNLT = 123.4 PNDB
PNL = 118.3 PNDB
ALT = 112.1 DBA
AL = 107.0 DBA

AD-A053 700 AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB OHIO F/G 1/2
COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS. VO--ETC(U)
NOV 77 J D SPEAKMAN, R G POWELL, R A LEE

UNCLASSIFIED AMRL-TR-73-110-VOL-2 NL

5 OF 8
AD A053700

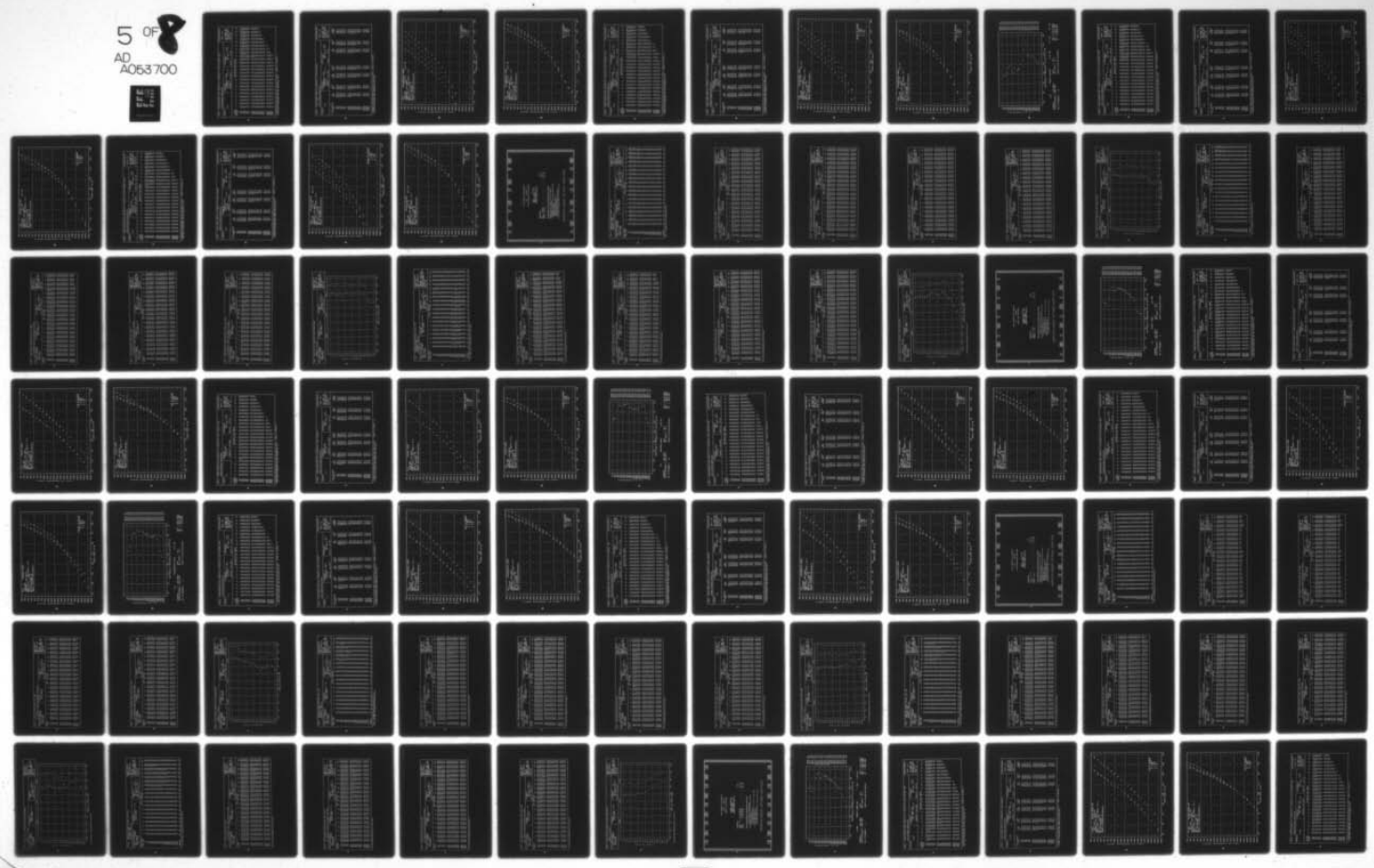


TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-5A

OPERATION:
INTERMEDIATE POWER
3.38 EPR 75 % NC
86 % NF
AIRSPEED = 130 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 022
OPS CODE: 106
PROFILE VER: A
27 JAN 76
PAGE H4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	89	88	87	89	96	97	90	88	95	89	91	93	94	103	102	121	110	105	114	109	111	111	115	123
250	87	86	85	87	94	95	88	86	93	87	89	91	92	101	100	119	108	103	112	106	109	108	112	120
315	85	84	83	85	92	93	86	84	90	85	87	88	90	98	97	117	106	101	109	104	106	105	109	116
400	83	82	81	83	90	91	84	82	88	83	85	86	87	96	95	115	104	98	107	101	103	102	105	111
500	81	80	79	81	88	89	82	80	86	81	83	84	85	94	93	112	101	96	104	98	100	98	101	105
630	79	78	77	79	86	86	80	78	84	79	81	82	83	92	91	110	99	93	101	95	97	94	96	99
800	77	76	75	76	84	84	78	76	82	76	79	80	81	90	88	108	96	90	98	91	93	90	90	92
1000	75	74	73	74	82	82	75	74	80	74	76	78	79	87	86	105<	93	87	95	87	89	85	83	83
1250	73	72	71	72	79	80	73	72	78	72	74	75	76	85	83	102	90	84	91	83	84	79	75	72
1600	71	70	69	70	77	78	71	69	76	70	72	73	74	82	81	99	87	80	87	78	78	72	66	60
2000	69	68	67	68	75	76	69	67	74	68	69	71	71	79	78	96	84	76	82	72	72	63	55	44
2500	67	66	65	66	73	74	67	65	71	65	67	68	68	77	74	93	80	72	77	65	64	53	41	25
3150	65	64	63	64	71	72	65	63	69	63	64	65	66	73	71	89	75	67	70	57	55	41	24	1
4000	63	62	61	62	69	70	62	60	66	60	62	62	62	70	67	84	70	61	63	48	44	26	4	
5000	61	60	59	60	67	67	60	58	64	57	59	59	59	66	63	79	64	54	54	36	30	8		
6300	59	58	56	58	64	65	58	55	61	54	56	56	55	62	58	73	58	45	44	22	14			
8000	56	56	54	55	62	62	55	53	58	51	52	52	51	57	52	67	50	35	31	5				
10000	54	53	52	53	60	60	52	50	55	48	48	48	46	51	46	59	40	23	15					
12500	52	51	50	50	57	57	49	47	52	44	44	43	40	44	38	49	28	9						
16000	50	49	47	48	54	54	46	43	48	40	39	37	33	37	28	38	14							
20000	47	46	45	45	51	51	43	39	44	35	34	30	26	27	17	24								
25000	45	44	42	42	48	48	39	35	39	29	27	23	16	16	3	7								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-5A

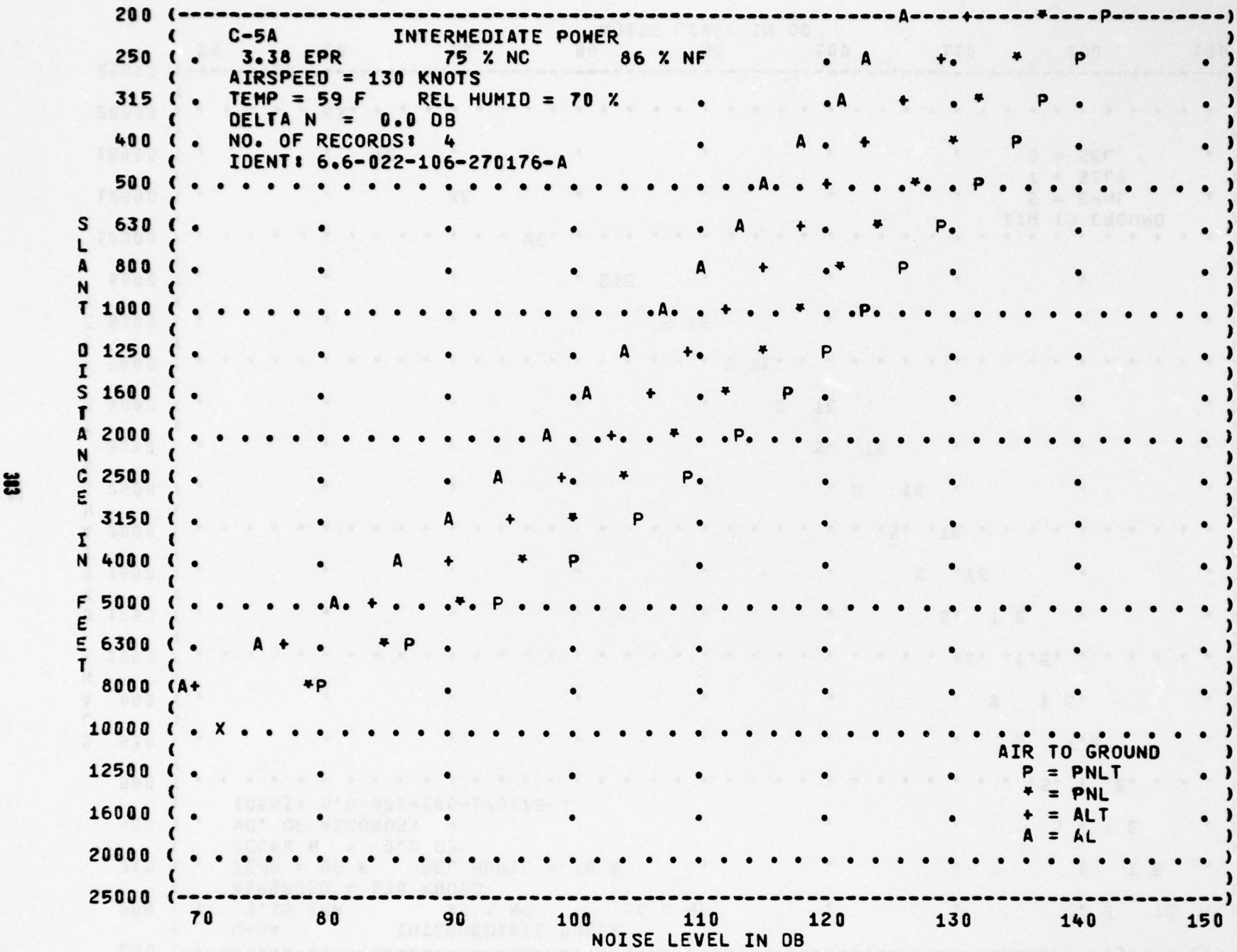
OPERATION:
INTERMEDIATE POWER
3.38 EPR 75 % NC
86 % NF
AIRSPEED = 130 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 022
OPS CODE: 106
PROFILE VER: A
27 JAN 76
PAGE I4

SLANT DISTANCE (FEET)	AL (OBA)	ALT** (OBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	126.2	131.3	137.0	142.1	123.5	127.3	128.7
250	123.5	128.6	134.6	139.7	121.8	125.6	127.4
315	120.7	125.9	132.2	137.3	120.0	123.9	125.9
400	118.0	123.1	129.6	134.7	118.3	122.1	124.3
500	115.3	120.4	127.0	132.1	116.6	120.4	122.7
630	112.5	117.6	124.2	129.3	114.8	118.7	120.9
800	109.8	114.9	121.3	126.4	113.1	116.9	119.0
1000	107.0	112.1	118.3	123.4	111.3	115.2	117.0
1250	104.1	109.2	115.1	120.2	109.4	113.2	114.8
1600	101.0	106.1	111.7	116.8	107.3	111.2	112.5
2000	97.7	102.8	108.1	113.3	105.0	108.8	109.9
2500	94.1	99.2	104.3	109.5	102.4	106.3	107.1
3150	90.2	95.3	100.2	105.3	99.5	103.3	104.0
4000	85.7	89.8	95.7	99.8	96.1	99.1	99.7
5000	80.8	83.8	90.8	93.9	92.1	94.4	95.0
6300	75.1	77.2	85.3	87.3	87.4	89.0	89.7
8000	68.7	69.7	79.1	80.2	82.0	82.7	83.8
10000	61.5	61.5	72.3	72.3	75.8	75.8	77.2
12500	54.2	54.2	64.8	64.8	69.5	69.5	70.6
16000	48.1	48.1	57.8	57.8	64.4	64.4	64.6
20000	43.4	43.4	52.4	52.4	60.7	60.7	60.3
25000	39.1	39.1	46.7	46.7	57.4	57.4	55.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-5A INTERMEDIATE POWER
3.38 EPR 75 % NC 86 % NF
AIRSPEED = 130 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-022-106-270176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB

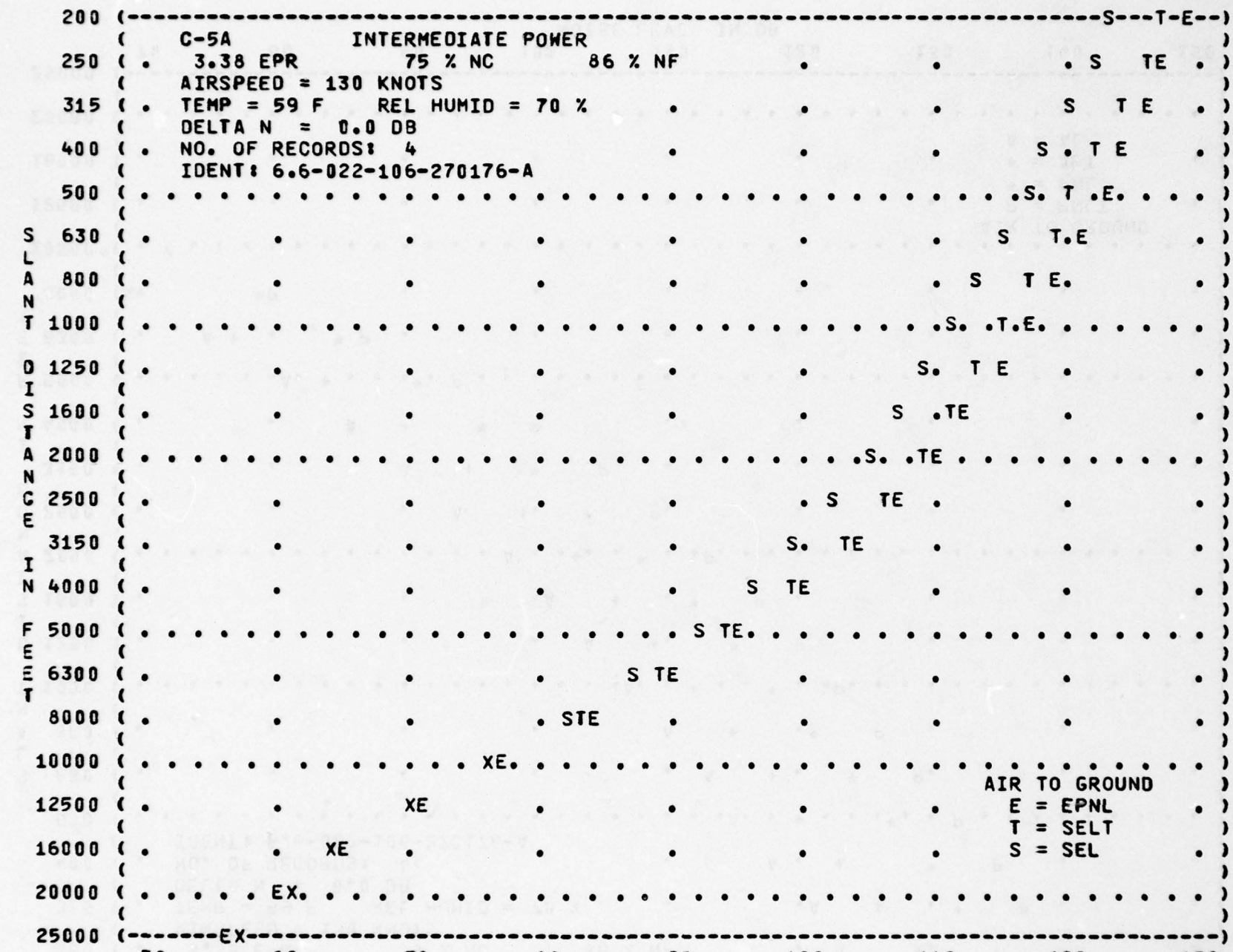

C-5A INTERMEDIATE POWER
3.38 EPR 75 % NC 86 % NF
AIRSPEED = 130 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-022-106-270176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-5A

OPERATION:
INTERMEDIATE POWER
3.38 EPR 75 % NC
86 % NF
AIRSPEED = 130 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 022
OPS CODE: 106
PROFILE VER: A
27 JAN 76
PAGE L4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	84	83	82	84	91	92	85	83	90	84	86	88	89	98	97	116	105	100	109	104	106	106	110	118
250	82	81	80	82	89	90	83	81	88	82	84	86	87	96	95	114	103	98	107	101	104	103	107	115
315	80	79	78	80	87	88	81	79	85	80	82	83	85	93	92	112	101	96	104	99	101	100	104	111
400	78	77	76	78	85	85	78	77	83	78	80	81	82	91	90	110	99	93	102	96	98	97	100	106
500	76	75	74	76	83	83	76	75	81	76	78	79	80	89	88	107	96	91	99	93	95	93	96	100
630	74	73	72	74	80	80	73	72	79	74	76	77	78	87	86	105	94	88	96	90	92	89	91	94
800	72	71	70	71	77	78	71	69	77	71	74	75	76	85	83	103	91	85	93	86	88	85	85	87
1000	70	69	68	68	74	75	68	66	75	69	71	73	74	82	81	100<	88	82	90	82	84	80	78	78
1250	68	67	65	65	71	71	65	63	72	67	69	70	71	80	78	97	85	79	86	78	79	74	70	67
1600	66	64	62	62	68	68	61	60	69	65	67	68	69	77	76	94	82	75	82	73	73	67	61	55
2000	63	61	58	58	64	64	57	56	65	63	64	66	66	74	73	91	79	71	77	67	67	58	50	39
2500	59	57	54	54	60	60	53	51	61	59	62	63	63	72	69	88	75	67	72	60	59	48	36	20
3150	55	52	49	49	55	55	48	46	57	55	58	60	61	68	66	84	70	62	65	52	50	36	19	
4000	51	47	44	43	49	49	42	40	51	50	55	57	57	65	62	79	65	56	58	43	39	21		
5000	46	42	39	38	44	44	37	35	45	44	50	52	54	61	58	74	59	49	49	31	25	3		
6300	41	38	34	34	39	39	32	30	39	38	46	48	49	57	53	68	53	40	39	17	9			
8000	38	36	32	31	37	37	29	28	36	35	42	44	45	52	47	62	45	30	26					
10000	36	33	30	29	35	34	27	25	33	32	38	40	40	46	41	54	35	18	10					
12500	34	31	28	26	32	32	24	22	30	28	34	35	34	39	33	44	23	4						
16000	32	29	25	24	29	29	21	18	26	24	29	29	27	32	23	33	9							
20000	29	26	23	21	26	26	17	14	22	19	24	22	20	22	12	19								
25000	27	24	20	18	23	22	13	10	17	13	17	15	10	11		2								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: C-5A

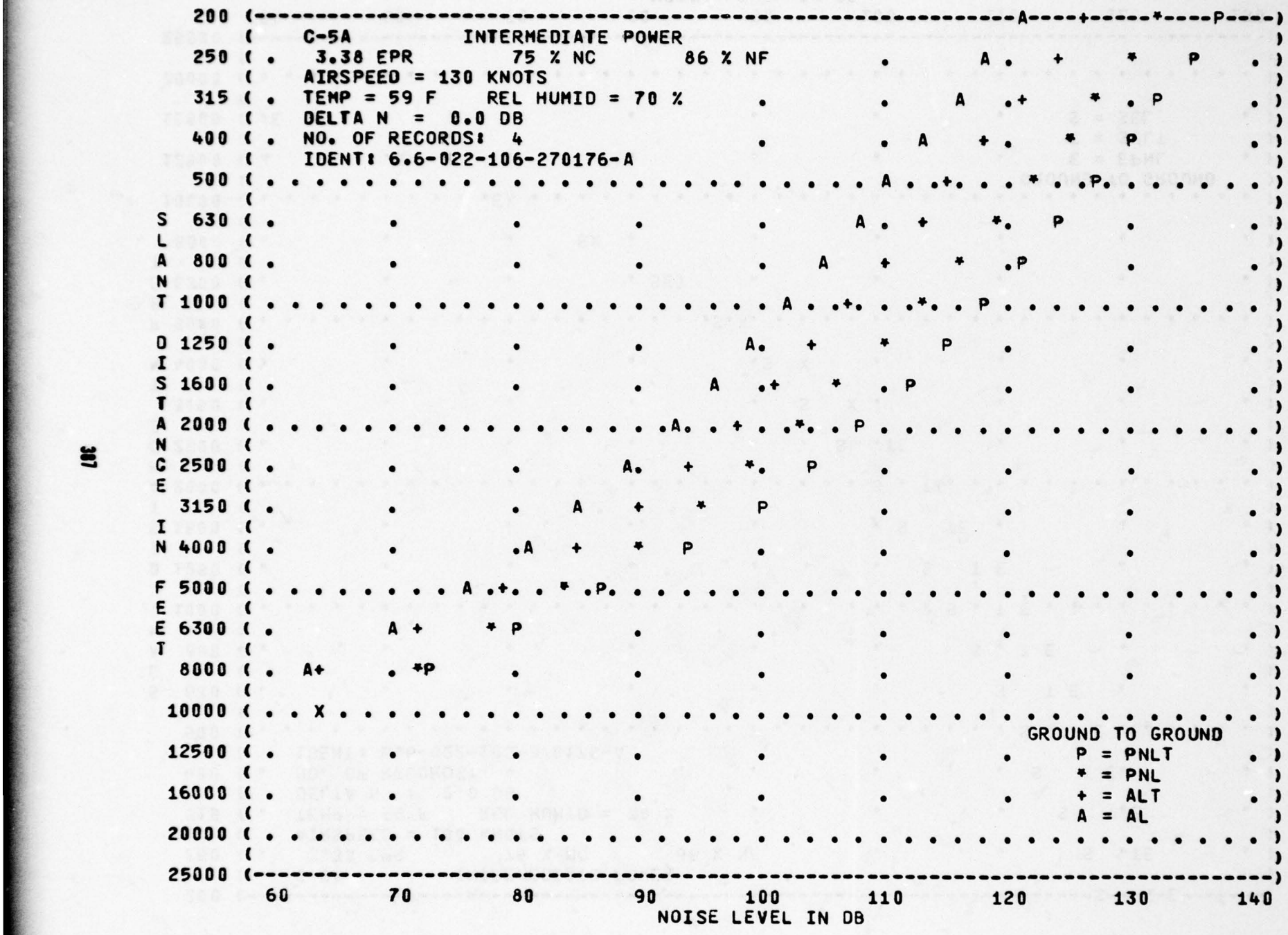
OPERATION: INTERMEDIATE POWER
3.38 EPR 75 % NC
86 % NF
AIRSPEED = 130 KNOTS

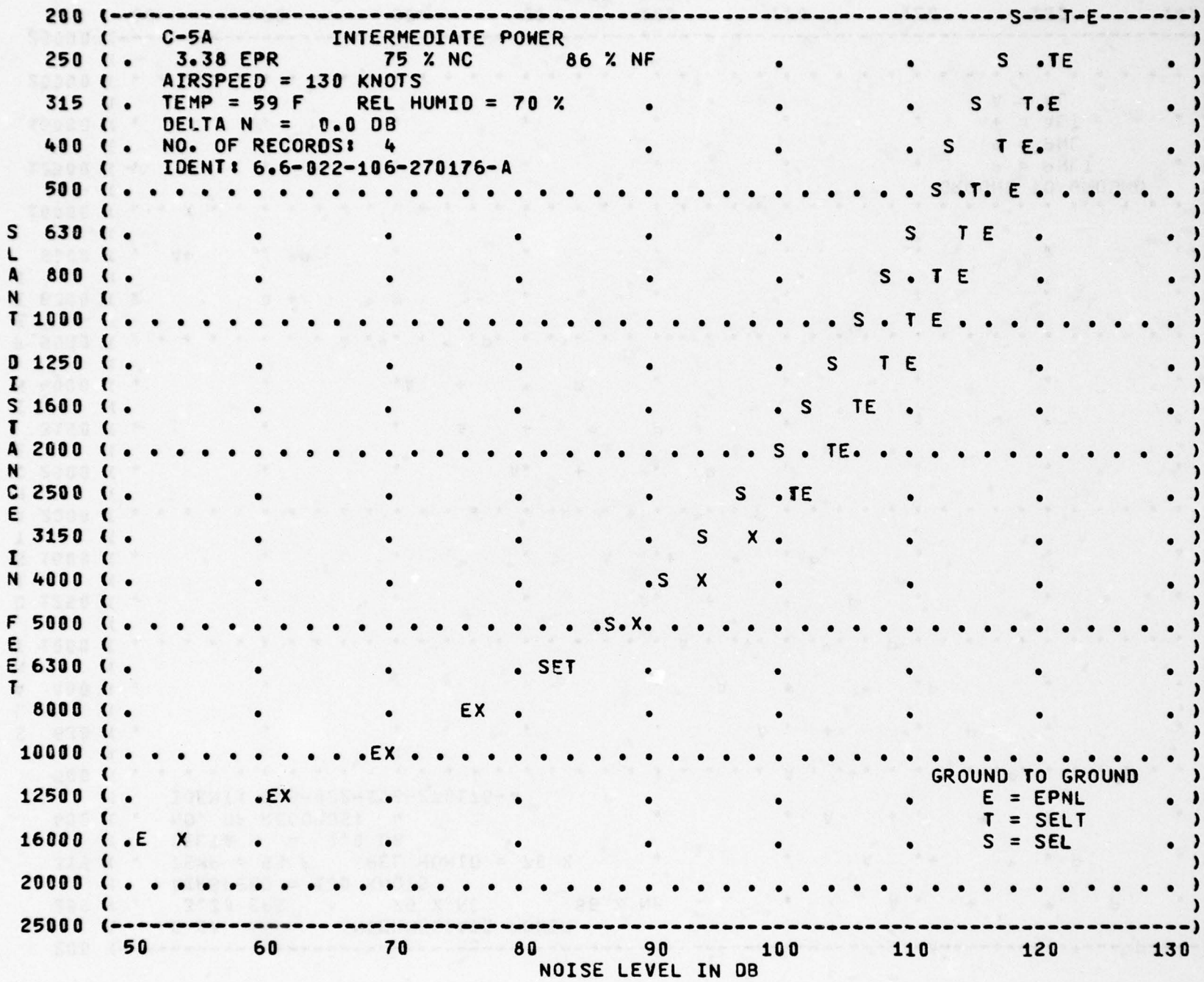
METEOROLOGY: TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

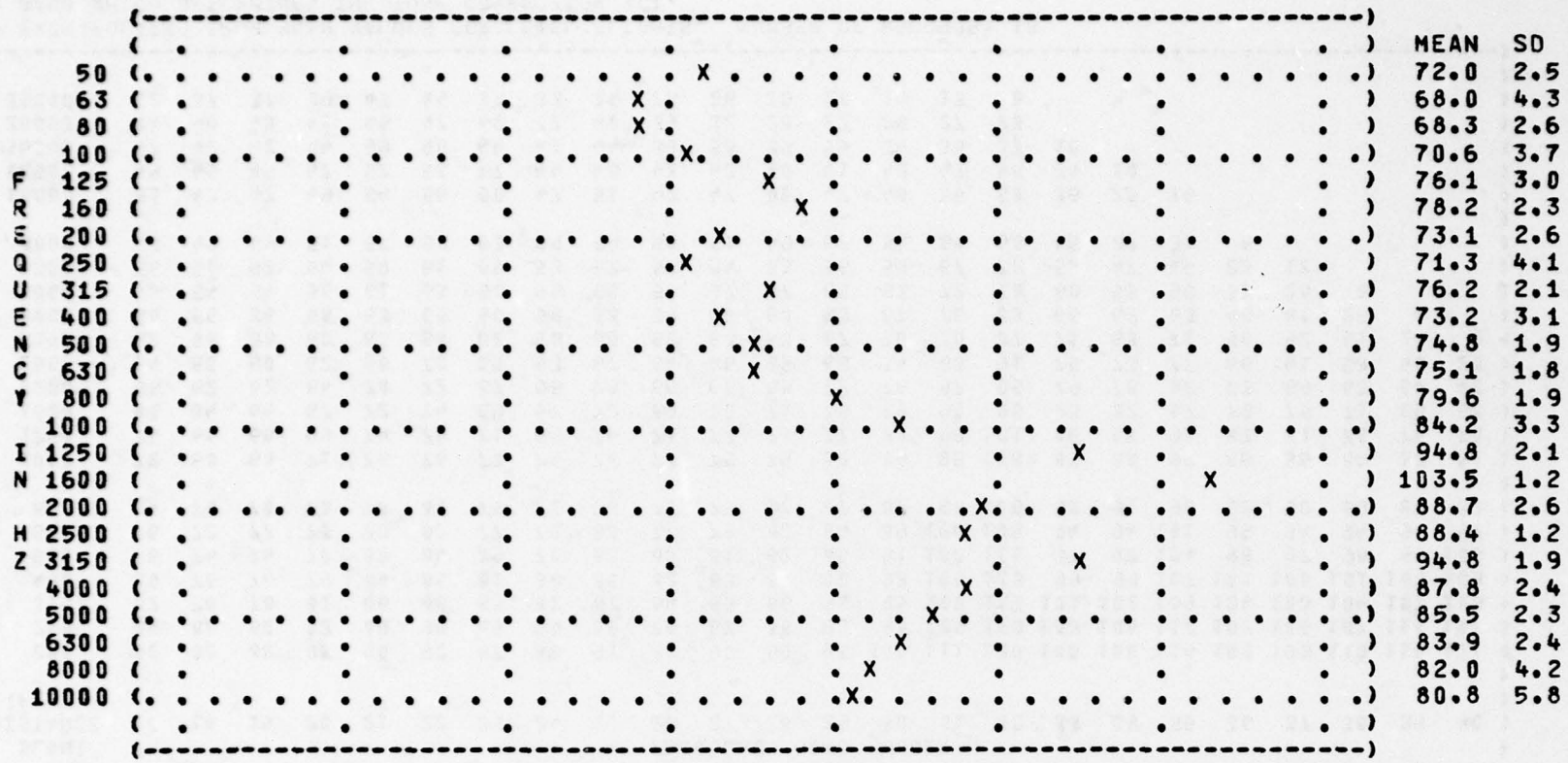
A/C CODE: 022
OPS CODE: 106
PROFILE VER: A
27 JAN 76
PAGE M4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	121.2	126.3	132.0	137.1	118.5	122.3	123.7
250	118.5	123.6	129.6	134.7	116.8	120.6	122.4
315	115.7	120.9	127.2	132.3	115.0	118.9	120.9
400	113.0	118.1	124.6	129.7	113.3	117.1	119.3
500	110.3	115.4	121.9	127.1	111.6	115.4	117.7
630	107.5	112.6	119.2	124.3	109.8	113.7	115.9
800	104.8	109.9	116.2	121.4	108.1	111.9	114.0
1000	102.0	107.1	113.2	118.3	106.3	110.1	111.9
1250	99.1	104.2	109.9	115.0	104.4	108.2	109.7
1500	96.0	101.1	106.5	111.6	102.3	106.2	107.2
2000	92.7	97.8	102.8	107.9	100.0	103.8	104.6
2500	89.1	94.2	98.8	104.0	97.4	101.2	101.6
3150	85.1	90.3	94.5	99.6	94.4	98.3	98.3
4000	80.7	84.8	89.7	93.8	91.0	94.1	93.7
5000	75.7	78.8	84.4	87.5	87.0	89.3	88.6
6300	70.0	72.0	78.4	80.4	82.3	83.8	82.8
8000	63.4	64.4	71.7	72.7	76.7	77.4	76.3
10000	55.7	55.7	64.0	64.0	70.0	70.0	68.9
12500	47.0	47.0	54.8	54.8	62.3	62.3	60.7
16000	37.5	37.5	43.8	43.8	53.8	53.8	50.7
20000	28.3	28.3	27.4	27.4	45.6	45.6	35.3
25000	20.1	20.1	8.3	8.3	38.4	38.4	17.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-5A INTERMEDIATE POWER
3.38 EPR 75 % NC 86 % NF
AIRSPEED = 130 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-022-106-270176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB


C-5A INTERMEDIATE POWER
3.38 EPR 75 % NC 86 % NF
AIRSPEED = 130 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-022-106-270176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
SET
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB



C-5A TRAFFIC PATTERN 3.07 EPR 71 % NC 85 % NF

AIRSPEED = 165 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 10

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-022-113-270176

PNLT = 121.0 PNDB
PNL = 117.0 PNDB
ALT = 110.0 DBA
AL = 106.0 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: C-5A

OPERATION: TRAFFIC PATTERN, 3.07 EPR, 71 % NC, 85 % NF, AIRSPEED = 165 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 022
OPS CODE: 113
PROFILE VER: A
27 JAN 76
PAGE H5

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	86	82	82	85	90	92	87	86	91	88	90	90	95	100	111	120	106	106	114	109	108	110	114	121
250	84	80	80	83	88	90	85	84	89	86	87	88	93	98	109	118	103	104	112	107	106	107	111	117
315	82	78	78	81	86	88	83	82	87	84	85	86	91	95	106	115	101	102	109	104	103	104	107	113
400	80	76	76	79	84	86	81	80	85	82	83	84	88	93	104	113	99	99	107	101	100	101	103	108
500	78	74	74	77	82	84	79	77	82	80	81	82	86	91	102	111	97	97	104	98	97	98	99	103
630	76	72	72	75	80	82	77	75	80	77	79	80	84	89	100	109	94	94	101	95	94	94	94	97
800	74	70	70	73	78	80	75	73	78	75	77	77	82	87	97	106	92	91	98	92	90	89	89	89
1000	72	68	68	71	76	78	73	71	76	73	75	75	80	84	95	103<	89	88	95	88	86	84	82	81
1250	70	66	66	69	74	76	71	69	74	71	73	73	77	82	92	101	86	85	91	83	81	78	74	70
1600	68	64	64	67	72	74	69	67	72	69	70	71	75	79	90	98	83	82	87	78	75	71	65	58
2000	66	62	62	64	70	72	67	65	70	66	68	68	72	76	87	95	79	78	82	73	69	63	54	42
2500	64	60	60	62	68	70	65	63	67	64	66	65	69	74	83	91	75	73	77	66	61	53	40	23
3150	62	58	58	60	66	68	62	60	65	62	63	63	67	70	80	87	71	68	71	58	52	41	24	0
4000	60	56	56	58	63	65	60	58	63	59	60	60	63	67	76	83	66	62	63	48	41	26	4	
5000	58	54	54	56	61	63	58	56	60	56	57	57	60	63	72	78	60	55	55	37	28	8		
6300	56	51	52	54	59	61	55	53	57	53	54	53	56	59	67	72	53	47	44	23	12			
8000	53	49	49	51	57	58	53	50	54	50	51	49	52	54	61	66	45	37	31	6				
10000	51	47	47	49	54	56	50	47	51	47	47	45	47	48	55	58	36	25	16					
12500	49	45	45	47	52	53	47	44	48	43	43	40	41	42	47	48	24	10						
16000	47	42	42	44	49	50	44	41	44	39	38	35	35	34	38	37	10							
20000	44	40	40	41	46	47	40	37	40	34	32	28	27	25	27	23								
25000	42	37	37	39	43	44	37	33	35	28	26	20	18	14	13	6								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 10

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-5A

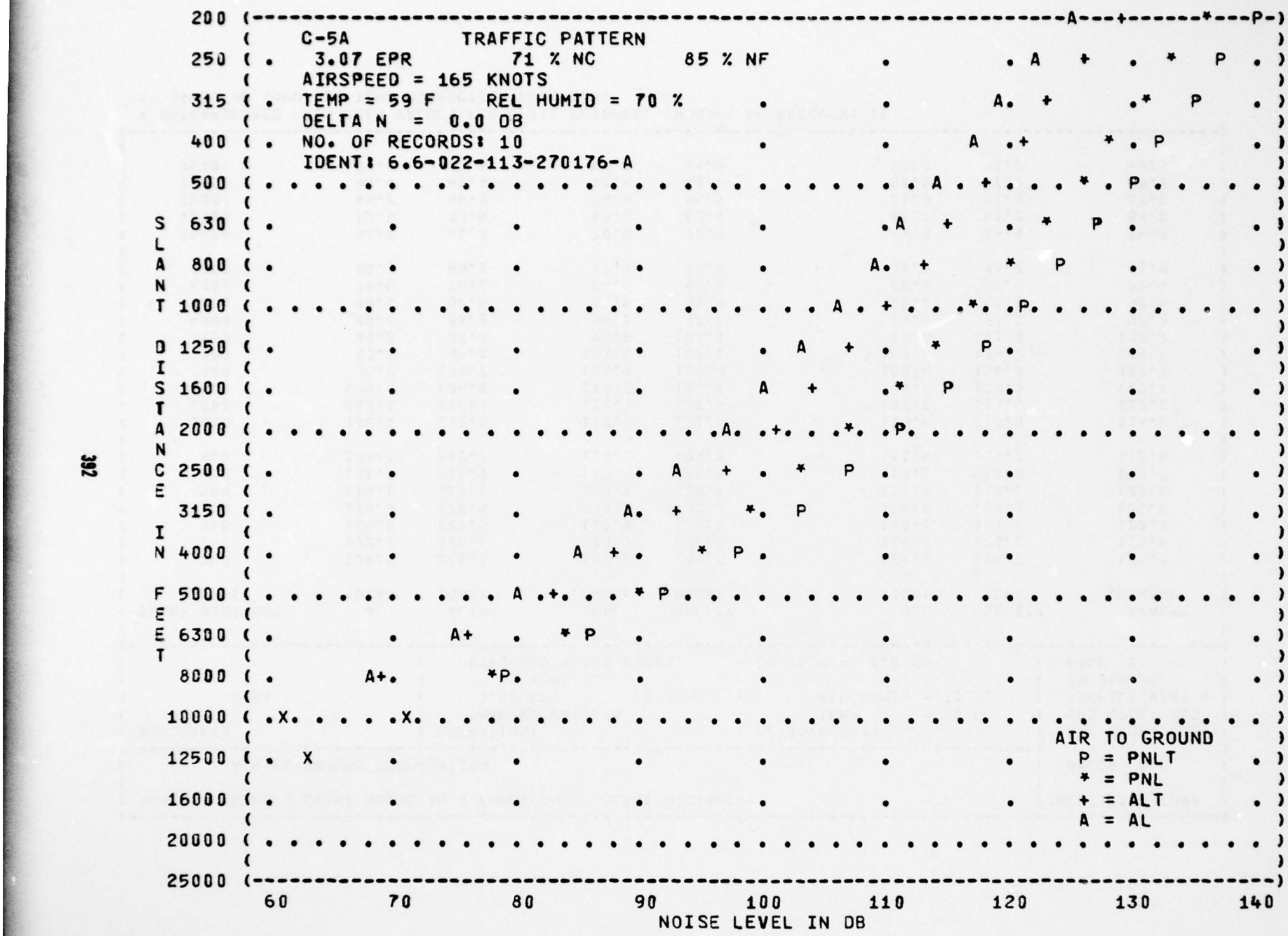
OPERATION:
TRAFFIC PATTERN
3.07 EPR 71 % NC
85 % NF
AIRSPEED = 165 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 022
OPS CODE: 113
PROFILE VER: A
27 JAN 76
PAGE I5

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	124.7	128.7	135.7	139.7	121.4	124.7	126.0
250	122.1	126.1	133.3	137.3	119.8	123.1	124.6
315	119.5	123.5	130.9	134.9	118.1	121.5	123.2
400	116.8	120.8	128.3	132.3	116.5	119.8	121.7
500	114.1	118.1	125.7	129.7	114.8	118.1	120.0
630	111.5	115.5	122.9	126.9	113.1	116.5	118.3
800	108.7	112.7	120.1	124.1	111.4	114.7	116.4
1000	106.0	110.0	117.0	121.0	109.6	113.0	114.4
1250	103.1	107.1	113.9	117.9	107.7	111.1	112.2
1600	100.0	104.0	110.5	114.5	105.7	109.0	109.8
2000	96.7	100.7	106.9	110.9	103.4	106.7	107.3
2500	93.2	97.2	103.1	107.1	100.8	104.2	104.5
3150	89.3	93.3	99.0	103.0	98.0	101.3	101.3
4000	85.0	88.2	94.5	97.7	94.6	97.3	97.2
5000	80.1	82.5	89.5	91.9	90.8	92.8	92.6
6300	74.6	76.2	84.0	85.6	86.3	87.6	87.4
8000	68.3	69.1	77.8	78.6	81.0	81.7	81.5
10000	61.2	61.2	70.9	70.9	74.9	74.9	74.9
12500	53.5	53.5	63.2	63.2	68.2	68.2	68.2
16000	46.2	46.2	54.5	54.5	61.9	61.9	60.5
20000	40.4	40.4	48.4	48.4	57.0	57.0	55.5
25000	35.6	35.6	41.3	41.3	53.2	53.2	49.3

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 10
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-5A TRAFFIC PATTERN
3.07 EPR 71 % NC 85 % NF
AIRSPEED = 165 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 10
IDENT: 6.6-022-113-270176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

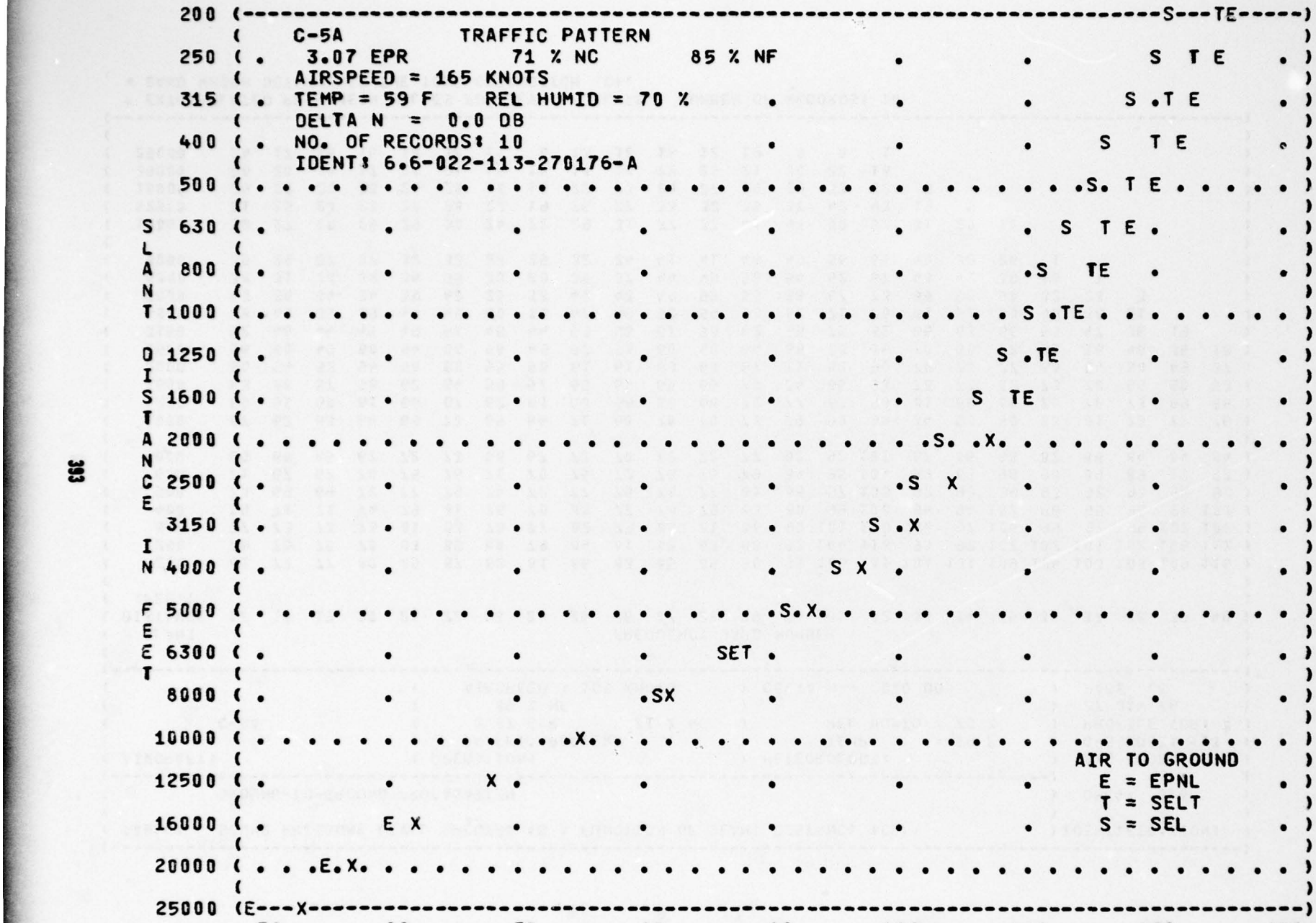

C-5A TRAFFIC PATTERN
3.07 EPR 71 % NC 85 % NF
AIRSPEED = 165 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 10
IDENT: 6.6-022-113-270176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
SET
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-5A

OPERATION:
TRAFFIC PATTERN
3.07 EPR 71 % NC
85 % NF
AIRSPEED = 165 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 022
OPS CODE: 113
PROFILE VER: A
27 JAN 76
PAGE L5

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	81	77	77	80	85	87	82	81	86	83	85	85	90	95	106	115	101	101	109	104	103	105	109	116
250	79	75	75	78	83	85	80	79	84	81	82	83	88	93	104	113	98	99	107	102	101	102	106	112
315	77	73	73	76	81	83	78	77	82	79	80	81	86	90	101	110	96	97	104	99	98	99	102	108
400	75	71	71	74	79	81	76	75	80	77	78	79	83	88	99	108	94	94	102	96	95	96	98	103
500	73	69	69	72	77	79	74	72	77	75	76	77	81	86	97	106	92	92	99	93	92	93	94	98
630	71	67	67	70	75	76	71	70	75	72	74	75	79	84	95	104	89	89	96	90	89	89	89	92
800	69	65	65	67	72	73	68	67	73	70	72	72	77	82	92	101	87	86	93	87	85	84	84	84
1000	67	63	63	64	69	70	65	64	71	68	70	70	75	79	90	98<	84	83	90	83	81	79	77	76
1250	65	61	60	61	66	67	62	61	68	66	68	68	72	77	87	96	81	80	86	78	76	73	69	65
1600	63	58	57	58	62	64	59	57	65	64	65	66	70	74	85	93	78	77	82	73	70	66	60	53
2000	60	54	53	54	58	60	55	53	61	61	63	63	67	71	82	90	74	73	77	68	64	58	49	37
2500	56	50	49	50	54	56	50	49	57	58	60	60	64	69	78	86	70	68	72	61	56	48	35	18
3150	52	46	44	45	49	51	45	44	53	53	57	58	62	65	75	82	66	63	66	53	47	36	19	
4000	48	41	39	39	44	45	40	38	47	49	53	54	58	62	71	78	61	57	58	43	36	21		
5000	43	36	34	34	39	40	35	33	41	43	49	50	55	58	67	73	55	50	50	32	23	3		
6300	38	31	30	30	34	35	30	28	35	37	44	45	50	54	62	67	48	42	39	18	7			
8000	35	29	27	27	32	33	27	25	32	34	41	41	46	49	56	61	40	32	26	1				
10000	33	27	25	25	29	30	24	22	29	31	37	37	41	43	50	53	31	20	11					
12500	31	25	23	23	27	28	22	19	26	27	33	32	35	37	42	43	19	5						
16000	29	22	20	20	24	25	18	16	22	23	28	27	29	29	33	32	5							
20000	26	20	18	17	21	21	15	12	18	18	22	20	21	20	22	18								
25000	24	17	15	15	18	18	11	8	13	12	16	12	12	9	8	1								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 10
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-5A

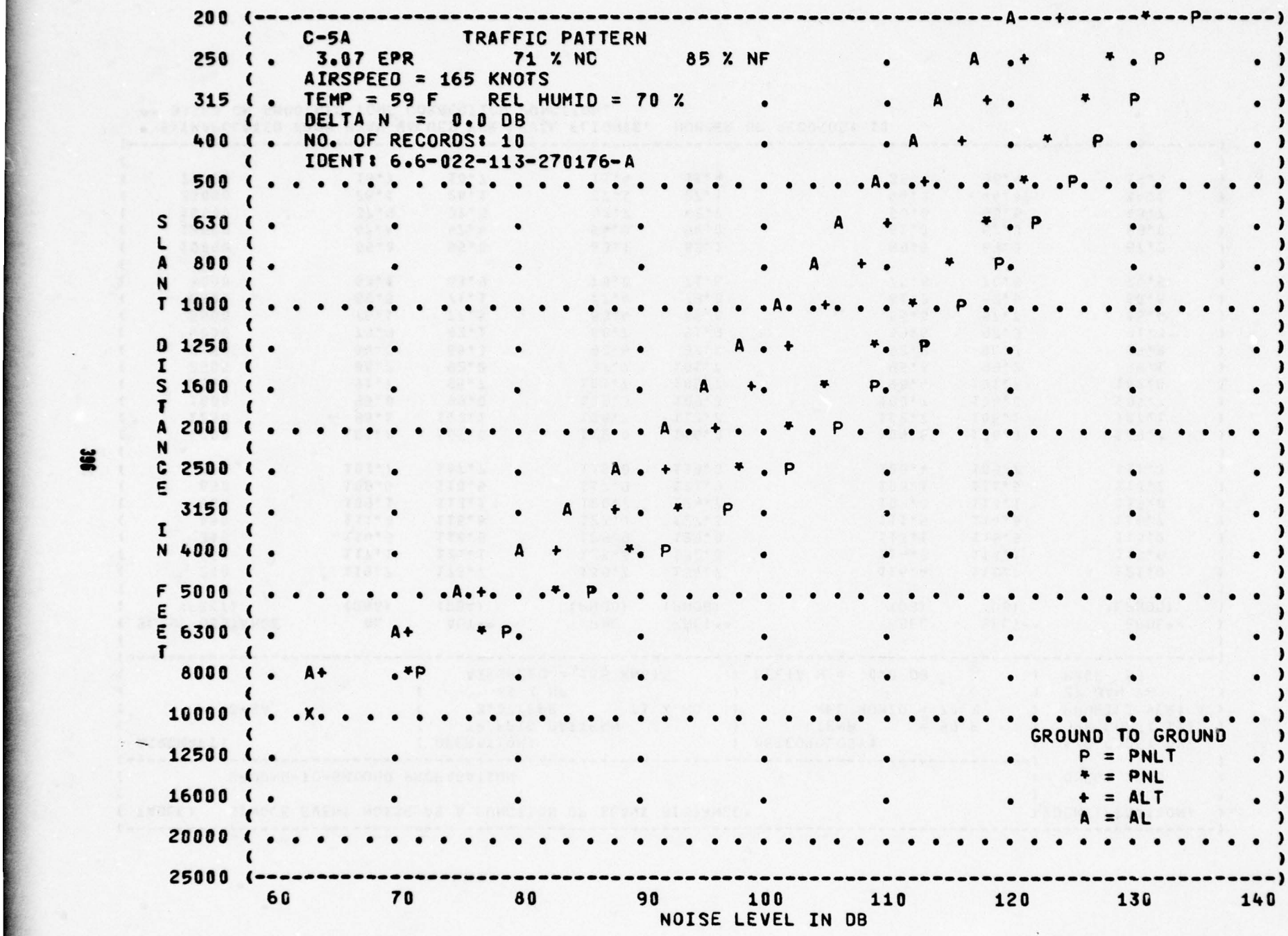
OPERATION:
TRAFFIC PATTERN
3.07 EPR 71 % NC
85 % NF
AIRSPEED = 165 KNOTS

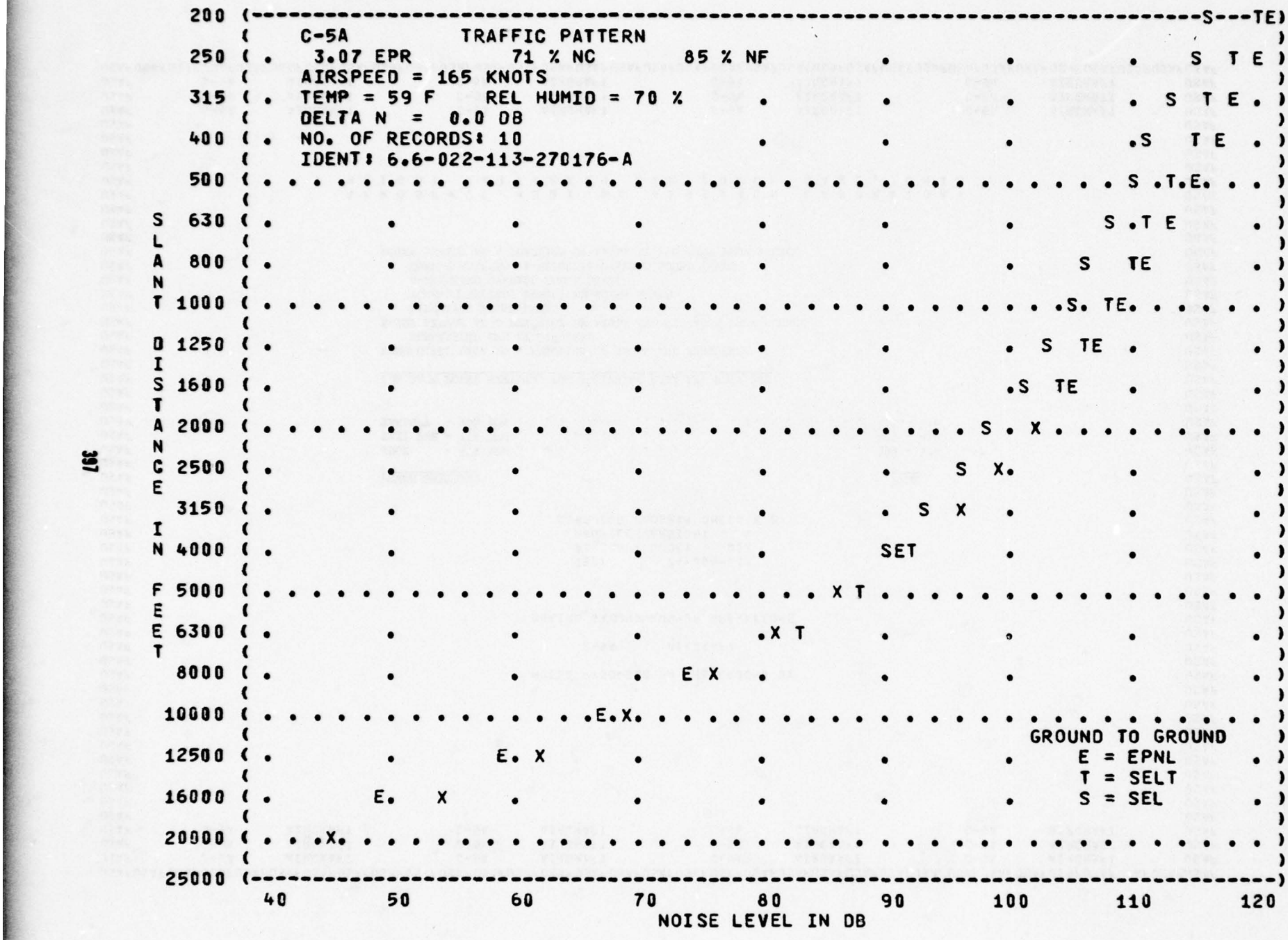
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 022
OPS CODE: 113
PROFILE VER: A
27 JAN 76
PAGE M5

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	119.7	123.7	130.7	134.7	116.4	119.7	121.0
250	117.1	121.1	128.3	132.3	114.8	118.1	119.6
315	114.5	118.5	125.9	129.9	113.1	116.5	118.2
400	111.8	115.8	123.3	127.3	111.5	114.8	116.7
500	109.1	113.1	120.7	124.7	109.8	113.1	115.0
630	106.5	110.5	117.9	121.9	108.1	111.5	113.2
800	103.7	107.7	115.0	119.0	106.4	109.7	111.3
1000	101.0	105.0	112.0	116.0	104.6	108.0	109.3
1250	98.1	102.1	108.7	112.7	102.7	106.1	107.1
1600	95.0	99.0	105.3	109.3	100.7	104.0	104.7
2000	91.7	95.7	101.7	105.7	98.4	101.7	102.0
2500	88.2	92.2	97.7	101.7	95.8	99.2	99.1
3150	84.3	88.3	93.4	97.4	92.9	96.3	95.8
4000	79.9	83.1	88.7	91.9	89.6	92.3	91.3
5000	75.1	77.5	83.4	85.8	85.8	87.7	86.4
6300	69.5	71.1	77.4	79.0	81.2	82.5	80.8
8000	63.1	63.9	70.8	71.6	75.8	76.5	74.5
10000	55.8	55.8	63.1	63.1	69.5	69.5	67.2
12500	47.4	47.4	54.0	54.0	62.0	62.0	59.0
16000	37.9	37.9	42.7	42.7	53.6	53.6	48.7
20000	28.1	28.1	27.1	27.1	44.8	44.8	34.1
25000	18.7	18.7	11.4	11.4	36.4	36.4	19.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 10
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-5A TRAFFIC PATTERN
3.07 EPR 71 % NC 85 % NF
AIRSPEED = 165 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 10
IDENT: 6.6-022-113-270176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB


C-5A TRAFFIC PATTERN
3.07 EPR 71 % NC 85 % NF
AIRSPEED = 165 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 10
IDENT: 6.6-022-113-270176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
SET
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

USAF C-5A AIRCRAFT C-5A AIRCRAFT C-5A AIRCRAFT C-5A AIRCRAFT USAF

NOISE PRODUCED ON THE GROUND BY

C-5A AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-004-032
AIRCRAFT CODE: 022
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING	PAGE
IDLE - 69% RPM	399 - 404
TAXI PWR - 77% RPM	405 - 410
TAKEOFF - 94% RPM	411 - 416

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF C-5A AIRCRAFT C-5A AIRCRAFT C-5A AIRCRAFT C-5A AIRCRAFT USAF

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-032
RUN 01
AIRCRAFT CODE 022
OPERATION CODE 04013
PROFILE VERSION A
05 FEB 76
PAGE C1

NOISE SOURCE/SUBJECT:
C-5A AIRCRAFT
ENG. TF39-1
GROUND RUNUP

OPERATION:
IDLE, 69% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	65	66	65	67	67	70	70	66	66	67	69	69	67	67	66	66	65<	65<	65<
63	67<	68<	66<	70<	69	69	69	67<	67<	69<	69<	69<	67<	67<	67<	66<	65<	65<	65<
80	70	70<	68<	74<	70<	70	70	68<	69<	71<	70<	69<	68<	68<	67<	66<	65<	65<	65<
100	68	72	69	77	70	69	72	69	70	73	70	69	68	68<	68	66<	65<	65<	65<
125	69<	70<	68<	72<	68<	67<	70<	69<	68<	71<	68<	68	68<	68<	68<	66<	65<	65<	65<
160	71	69	67	67	67	66	69	69	67	69	67	70	69	69	69	66	65	65	65
200	73	72	71	71	71	68	71	71	68	68	70	68	70	70	67	66	65<	65<	66
250	72	71	68	68	68	68	71	70	68	70	68	70	70	70	70	68	64<	65<	66<
315	75	74	72	70	69	69	71	71	70	70	70	70	70	71	72	70	64	65	67
400	76	75	72	69	70	71	71	72	70	71	69	70	71	73	73	71	66	65	67
500	82	81	80	77	78	80	81	87	87	87	85	86	85	82	84	81	78	77	79
630	77	77	75	73	74	75	76	80	79	79	77	77	77	78	79	75	71	71	71
800	73	73	71	69	70	72	71	73	69	69	69	70	71	72	74	69	65	65	65
1000	77	78	77	77	75	77	78	81	82	81	77	76	76	75	77	73	70	68	69
1250	75	77	76	76	74	75	75	76	76	75	73	74	74	73	75	70	66	66	66
1600	76	77	79	77	76	77	75	76	73	78	77	79	77	77	76	70	68	67	68
2000	77	78	80	79	77	76	75	74	71	71	72	76	77	74	76	70	66	65	67
2500	76	76	76	77	76	75	74	71	67	68	69	72	73	72	74	67	62	62	62
3150	79	78	78	77	76	76	75	73	69	69	70	73	74	72	73	66	62	62	63
4000	88	87	84	81	80	80	82	77	73	74	73	76	80	77	76	70	66	66	67
5000	73	74	74	73	72	71	71	68	65	66	65	70	70	69	69	62	59	59	59
6300	71	70	70	70	69	68	68	65	63	65	65	66	66	67	66	61	56	57	58
8000	64	64	63	64	62	61	61	58	57	58	58	59	60	59	59	55	50<	51<	52<
10000	58<	58<	57<	58<	56<	55<	55<	52<	51<	52<	52<	53<	54<	52<	53<	49<	44<	45<	46<
OVERALL	91	91	89	88	87	88	88	90	90	90	88	89	89	87	88	85	82	81	82

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-5A AIRCRAFT
ENG. TF39-1
GROUND RUNUP

OPERATION:
IDLE, 69% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-032
RUN 01
AIRCRAFT CODE 022
OPERATION CODE 04013
PROFILE VERSION A
05 FEB 76
PAGE 01

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	108.5	107.9	106.1	104.4	103.3	103.3	104.4	102.0	100.6	101.2	99.9	101.5	103.3	101.5	101.5	96.5	93.1	92.6	93.9
250	106.1	105.6	103.7	102.1	101.0	101.0	102.1	99.8	98.5	99.0	97.7	99.2	101.0	99.2	99.2	94.4	90.9	90.4	91.7
315	103.7	103.2	101.3	99.7	98.6	98.6	99.7	97.5	96.3	96.8	95.5	96.9	98.6	96.8	96.9	92.1	88.7	88.2	89.5
400	101.2	100.7	98.8	97.2	96.1	96.1	97.2	95.2	94.0	94.6	93.2	94.7	96.1	94.4	94.4	89.9	86.4	85.9	87.3
500	98.6	98.0	96.2	94.5	93.5	93.5	94.6	92.9	91.7	92.3	90.9	92.3	93.5	91.8	91.8	87.5	84.1	83.6	84.9
630	95.7	95.2	93.4	91.7	90.7	90.7	91.8	90.5	89.4	89.9	88.5	89.9	90.8	89.0	89.3	85.1	81.7	81.2	82.5
800	92.7	92.2	90.4	88.8	87.7	87.8	88.8	88.1	86.9	87.4	86.0	87.4	87.8	86.1	86.7	82.7	79.2	78.7	80.0
1000	89.5	89.0	87.2	85.6	84.5	84.6	85.6	85.5	84.4	84.9	83.4	84.8	84.7	83.0	84.1	80.1	76.7	76.1	77.5
1250	85.9	85.4	83.7	82.1	81.0	81.2	82.2	82.8	81.8	82.2	80.8	82.1	81.9	80.2	81.4	77.4	73.9	73.3	74.8
1500	82.8	81.8	79.9	78.7	77.5	77.4	78.4	80.0	79.0	79.5	77.9	79.3	79.0	77.3	78.5	74.5	71.1	70.4	71.9
2000	77.7	77.3	76.0	75.1	73.8	73.9	74.5	77.1	76.1	76.5	75.0	76.3	76.0	74.2	75.5	71.5	68.1	67.4	68.9
2500	72.9	72.5	72.2	71.2	69.9	70.4	71.0	73.9	73.0	73.4	71.7	73.0	72.7	70.8	72.2	68.3	64.8	64.1	65.6
3150	68.4	68.1	67.9	66.8	65.4	66.3	66.8	70.0	69.2	69.5	67.9	69.1	68.7	66.9	68.3	64.4	60.9	60.2	61.7
4000	63.9	63.5	63.1	61.9	60.7	61.8	62.4	65.8	65.0	65.3	63.5	64.8	64.4	62.5	64.0	60.0	56.4	55.7	57.3
5000	58.8	58.5	58.0	56.4	55.6	56.8	57.4	61.1	60.3	60.5	58.9	60.0	59.6	57.5	59.2	55.2	51.4	50.5	52.3
6300	53.5	53.1	52.3	50.6	50.1	51.6	52.1	56.0	55.4	55.6	53.8	54.9	54.4	52.3	54.1	50.0	46.2	45.2	47.1
8000	48.7	48.3	47.4	44.8	45.0	46.8	47.3	51.9	51.4	51.5	49.6	50.6	50.0	47.9	49.7	45.8	41.6	40.5	42.5
10000	43.6	43.1	42.0	39.0	39.4	41.2	42.0	47.3	46.7	46.9	44.9	45.9	45.2	42.8	45.0	40.5	36.5	35.4	37.4
12500	37.8	36.8	35.4	32.3	33.0	35.3	36.2	42.3	41.6	42.0	39.6	40.7	39.7	37.1	39.3	34.8	30.1	28.4	31.1
16000	31.0	30.1	28.0	24.1	25.2	28.0	28.7	36.2	35.6	35.5	32.9	34.0	32.9	30.8	33.0	27.9	24.2	23.0	25.3
20000	23.0	21.3	18.6	13.3	15.1	18.6	21.2	28.9	28.8	28.8	26.4	27.6	26.4	23.1	25.5	20.4	15.1	13.3	16.8
25000	12.0	10.2	8.4	2.6	5.0	8.4	10.2	20.8	20.8	20.8	17.2	19.0	17.2	12.0	15.5	10.2	5.9	3.7	8.4

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-5A AIRCRAFT
ENG. TF39-1
GROUND RUNUP

OPERATION:
IDLE, 69% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-032
RUN 01
AIRCRAFT CODE 022
OPERATION CODE 04013
PROFILE VERSION A
05 FEB 76
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	112.3	111.4	108.5	106.5	105.4	105.8	107.2	105.8	104.9	105.3	104.0	105.8	107.1	103.8	104.3	99.3	96.4	95.7	97.4
250	109.9	109.0	106.2	104.2	103.1	103.5	104.9	103.5	102.8	103.1	101.8	103.5	104.8	101.5	102.0	97.1	94.2	93.5	95.2
315	107.5	106.6	103.8	101.8	100.7	101.1	102.5	101.3	100.6	100.9	99.6	101.2	102.4	99.1	99.7	94.9	92.0	91.3	93.0
400	105.0	104.1	101.3	99.3	98.2	98.6	100.0	99.0	98.3	98.7	97.3	98.9	99.9	96.6	97.2	92.7	89.7	89.0	90.7
500	102.3	101.5	98.6	96.6	95.6	96.0	97.4	96.7	96.0	96.4	95.0	96.6	97.3	94.1	94.6	90.3	87.4	86.7	88.4
630	99.5	98.7	95.8	93.9	92.8	93.2	94.6	94.3	93.7	94.0	92.6	94.2	94.6	91.3	92.0	87.9	85.0	84.3	86.0
800	96.5	95.7	92.9	90.9	89.8	90.2	91.6	91.8	91.2	91.5	90.1	91.7	91.6	88.4	89.5	85.4	82.5	81.8	83.5
1000	93.2	92.4	89.6	87.7	86.6	87.1	88.4	89.3	88.7	89.0	87.6	89.1	88.5	85.3	86.9	82.9	80.0	79.2	80.9
1250	89.7	88.9	86.1	84.2	83.2	83.6	84.9	85.6	86.1	86.4	84.9	86.4	85.7	82.5	84.2	80.2	77.2	76.5	78.2
1500	85.8	85.0	82.3	80.8	79.6	79.9	81.2	83.8	83.3	83.6	82.0	83.6	82.8	79.6	81.3	77.3	74.4	73.6	75.3
2000	81.5	80.7	78.5	77.2	75.9	76.4	77.2	80.8	80.4	80.6	79.1	80.6	79.7	76.5	78.3	74.3	71.4	70.6	72.4
2500	78.7	75.9	74.6	73.3	72.0	72.8	73.8	77.6	77.3	77.5	75.9	77.3	76.4	73.1	75.0	71.1	68.1	67.2	69.0
3150	72.2	71.5	70.3	69.0	67.6	68.7	69.6	73.8	73.5	73.7	72.0	73.4	72.5	69.1	71.1	67.1	64.2	63.3	65.2
4000	66.9	66.3	65.1	63.6	62.4	63.7	64.7	68.8	68.4	68.6	66.8	68.2	67.4	64.3	66.2	62.2	59.0	58.2	60.0
5000	61.1	60.5	59.5	57.7	56.9	58.3	59.1	63.4	62.9	63.0	61.3	62.6	61.8	59.0	60.9	56.9	53.4	52.4	54.3
6300	55.6	54.5	53.3	51.5	51.0	52.5	53.2	57.6	57.1	57.3	55.4	56.6	55.9	53.2	55.2	51.1	47.5	46.5	48.4
8000	49.4	49.0	47.9	45.2	45.5	47.3	47.9	52.6	52.2	52.4	50.4	51.5	50.7	48.4	50.3	46.4	42.3	41.1	43.2
10000	43.6	43.1	42.0	39.0	39.4	41.2	42.0	47.3	46.7	46.9	44.9	45.9	45.2	42.8	45.0	40.5	36.5	35.4	37.4
12500	37.8	36.8	35.4	32.3	33.0	35.3	36.2	42.5	41.8	42.0	39.6	40.7	39.7	37.1	39.3	34.8	30.1	28.4	31.1
16000	31.0	30.1	28.0	24.1	25.2	28.0	28.7	36.2	35.6	35.5	32.9	34.0	32.9	30.8	33.0	27.9	24.2	23.0	25.3
20000	23.6	21.3	18.6	13.3	15.1	18.6	21.2	28.9	28.8	28.8	26.4	27.6	26.4	23.1	25.5	20.4	15.1	13.3	16.8
25000	12.0	10.2	8.4	2.6	5.0	8.4	10.2	20.8	20.8	20.8	17.2	19.0	17.2	12.0	15.5	10.2	5.9	3.7	8.4

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-5A AIRCRAFT
ENG. TF39-1
GROUND RUNUP

OPERATION:
IDLE, 69% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-032
RUN 01
AIRCRAFT CODE 022
OPERATION CODE 04013
PROFILE VERSION A
05 FEB 76
PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	93.3	92.8	91.7	90.2	89.1	89.4	89.8	90.6	89.9	90.1	88.3	89.7	89.9	88.3	89.2	84.6	81.2	80.5	81.8
250	91.0	90.6	89.4	88.0	86.9	87.2	87.6	88.5	87.8	88.0	86.2	87.0	87.7	86.1	87.1	82.5	79.1	78.4	79.7
315	88.6	88.2	87.1	85.7	84.6	84.9	85.3	86.3	85.7	85.9	84.0	85.5	85.5	83.9	84.9	80.4	77.0	76.3	77.5
400	86.2	85.8	84.8	83.3	82.3	82.6	83.0	84.1	83.5	83.7	81.9	83.3	83.3	81.7	82.7	78.2	74.9	74.1	75.4
500	83.6	83.3	82.3	80.9	79.8	80.3	80.6	81.9	81.4	81.6	79.7	81.0	81.0	79.4	80.5	76.0	72.7	71.9	73.2
630	81.0	80.7	79.8	78.4	77.3	77.8	78.1	79.7	79.2	79.3	77.4	78.7	78.6	77.1	78.2	73.8	70.4	69.7	71.0
800	78.2	77.9	77.1	75.8	74.8	75.3	75.6	77.4	77.0	77.1	75.2	76.4	76.2	74.7	75.8	71.5	68.2	67.4	68.7
1000	75.3	75.1	74.4	73.1	72.1	72.7	72.9	75.1	74.7	74.8	72.8	74.0	73.7	72.2	73.4	69.2	65.8	65.0	66.4
1250	72.2	72.1	71.5	70.3	69.2	70.0	70.2	72.7	72.3	72.4	70.4	71.6	71.1	69.7	70.9	66.8	63.5	62.6	64.0
1500	69.1	69.0	68.5	67.3	66.3	67.1	67.4	70.2	69.9	70.0	68.0	69.0	68.5	67.0	68.4	64.3	61.0	60.2	61.5
2000	65.9	65.9	65.5	64.2	63.3	64.2	64.5	67.7	67.5	67.5	65.4	66.4	65.8	64.3	65.7	61.8	58.5	57.6	59.0
2500	62.6	62.7	62.2	61.0	60.1	61.2	61.5	65.0	64.8	64.8	62.7	63.6	63.0	61.5	62.9	59.1	55.8	54.9	56.3
3150	59.0	59.2	58.7	57.4	56.6	57.8	58.2	61.8	61.6	61.6	59.4	60.3	59.6	58.2	59.7	55.8	52.5	51.7	53.0
4000	55.1	55.4	54.9	53.6	52.8	54.1	54.5	58.2	58.0	58.0	55.7	56.6	55.9	54.5	56.0	52.2	48.9	48.0	49.4
5000	50.9	51.2	50.6	49.4	48.6	50.0	50.4	54.1	54.1	53.9	51.6	52.4	51.8	50.4	51.9	48.1	44.8	43.9	45.2
6300	46.5	46.8	46.1	44.9	44.1	45.6	46.1	49.9	49.8	49.8	47.3	48.0	47.4	46.0	47.5	43.7	40.5	39.6	40.9
8000	42.5	42.7	41.7	40.4	39.8	41.4	42.0	46.1	46.1	45.9	43.6	44.3	43.6	42.1	43.7	40.1	36.8	35.9	37.3
10000	38.3	38.2	37.1	35.6	35.3	36.9	37.6	42.1	42.0	41.8	39.6	40.3	39.6	38.0	39.6	36.1	32.8	32.0	33.4
12500	33.7	33.4	32.2	30.4	30.4	32.2	32.9	37.7	37.6	37.5	35.3	36.0	35.3	33.5	35.2	31.8	28.5	27.7	29.2
16000	28.8	28.3	27.0	24.9	25.3	27.0	27.8	32.9	32.8	32.7	30.6	31.4	30.6	28.6	30.4	27.0	23.8	23.0	24.6
20000	23.4	22.7	21.4	19.1	19.6	21.4	22.3	27.5	27.4	27.4	25.3	26.2	25.3	23.2	25.0	21.7	18.5	17.7	19.4
25000	17.3	16.6	15.2	12.8	13.5	15.2	16.1	21.5	21.4	21.4	19.4	20.3	19.4	17.2	18.9	15.8	12.6	11.7	13.5

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-5A AIRCRAFT
ENG. TF39-1
GROUND RUNUP

OPERATION:
IDLE, 69% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-032
RUN 01
AIRCRAFT CODE 022
OPERATION CODE 04013
PROFILE VERSION A
05 FEB 76
PAGE G1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	97.1	96.3	94.1	92.3	91.2	91.9	92.6	94.3	94.1	94.2	92.4	94.0	93.7	90.5	92.0	87.4	84.5	83.6	85.2
250	94.8	94.0	91.9	90.1	89.0	89.6	90.4	92.2	92.1	92.1	90.3	91.9	91.5	88.4	89.9	85.3	82.4	81.5	83.1
315	92.4	91.7	89.6	87.8	86.7	87.4	88.1	90.1	89.9	90.0	88.1	89.7	89.3	86.2	87.7	83.2	80.3	79.4	81.0
400	90.0	89.2	87.2	85.5	84.4	85.1	85.8	87.9	87.8	87.8	86.0	87.5	87.0	84.0	85.5	81.0	78.1	77.2	78.8
500	87.4	86.7	84.8	83.0	82.0	82.7	83.4	85.7	85.7	85.7	83.8	85.3	84.7	81.7	83.3	78.8	75.9	75.0	76.6
630	84.7	84.1	82.2	80.5	79.5	80.3	80.9	83.5	83.5	83.5	81.5	83.0	82.4	79.3	81.0	76.6	73.7	72.8	74.4
800	82.0	81.4	79.6	77.9	76.9	77.7	78.3	81.2	81.2	81.2	79.3	80.7	80.0	76.9	78.6	74.3	71.4	70.5	72.1
1000	79.0	78.5	76.8	75.2	74.2	75.1	75.7	78.9	79.0	78.9	76.9	78.3	77.5	74.5	76.2	72.0	69.1	68.2	69.8
1250	76.0	75.6	74.0	72.4	71.4	72.4	73.0	76.5	76.6	76.5	74.5	75.8	74.9	71.9	73.7	69.6	66.7	65.8	67.4
1500	72.8	72.5	71.0	69.4	68.4	69.0	70.2	74.0	74.2	74.1	72.1	73.3	72.3	69.3	71.2	67.1	64.3	63.3	65.0
2000	69.6	69.4	67.9	66.3	65.4	66.7	67.3	71.5	71.7	71.6	69.5	70.7	69.6	66.6	68.5	64.6	61.8	60.8	62.5
2500	66.3	66.1	64.7	63.1	62.2	63.6	64.3	68.8	69.1	68.9	66.8	67.9	66.8	63.8	65.7	61.8	59.1	58.0	59.8
3150	62.8	62.6	61.2	59.6	58.7	60.3	60.9	65.5	65.9	65.7	63.5	64.6	63.4	60.5	62.4	58.6	55.8	54.8	56.5
4000	58.2	58.1	56.8	55.3	54.5	56.1	56.7	61.2	61.5	61.2	59.0	60.0	58.9	56.3	58.2	54.4	51.5	50.5	52.1
5000	53.2	53.3	52.1	50.7	49.9	51.5	52.1	56.4	56.6	56.4	54.1	55.0	54.0	51.8	53.6	49.7	46.8	45.8	47.3
6300	48.0	48.2	47.1	45.8	45.0	46.6	47.2	51.4	51.5	51.3	48.9	49.7	48.9	46.9	48.7	44.8	41.8	40.8	42.3
8000	43.3	43.3	42.2	40.8	40.2	41.9	42.6	46.9	46.9	46.7	44.4	45.1	44.3	42.6	44.3	40.6	37.4	36.5	38.0
10000	38.3	38.2	37.1	35.6	35.3	36.9	37.6	42.1	42.0	41.8	39.6	40.3	39.6	38.0	39.6	36.1	32.8	32.0	33.4
12500	33.7	33.4	32.2	30.4	30.4	32.2	32.9	37.7	37.6	37.5	35.3	36.0	35.3	33.5	35.2	31.8	28.5	27.7	29.2
16000	28.8	28.3	27.0	24.9	25.3	27.0	27.8	32.9	32.8	32.7	30.6	31.4	30.6	28.6	30.4	27.0	23.8	23.0	24.6
20000	23.4	22.7	21.4	19.1	19.6	21.4	22.3	27.5	27.4	27.4	25.3	26.2	25.3	23.2	25.0	21.7	18.5	17.7	19.4
25000	17.3	16.6	15.2	12.8	13.5	15.2	16.1	21.5	21.4	21.4	19.4	20.3	19.4	17.2	18.9	15.8	12.6	11.7	13.5

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
C-5A AIRCRAFT
ENG. TF39-1
GROUND RUNUP

OPERATION:
IDLE, 69% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-032
RUN 01
AIRCRAFT CODE 022
OPERATION CODE 04013
PROFILE VERSION A
05 FEB 76
PAGE J1

P=PNLT A=AL T=ALT

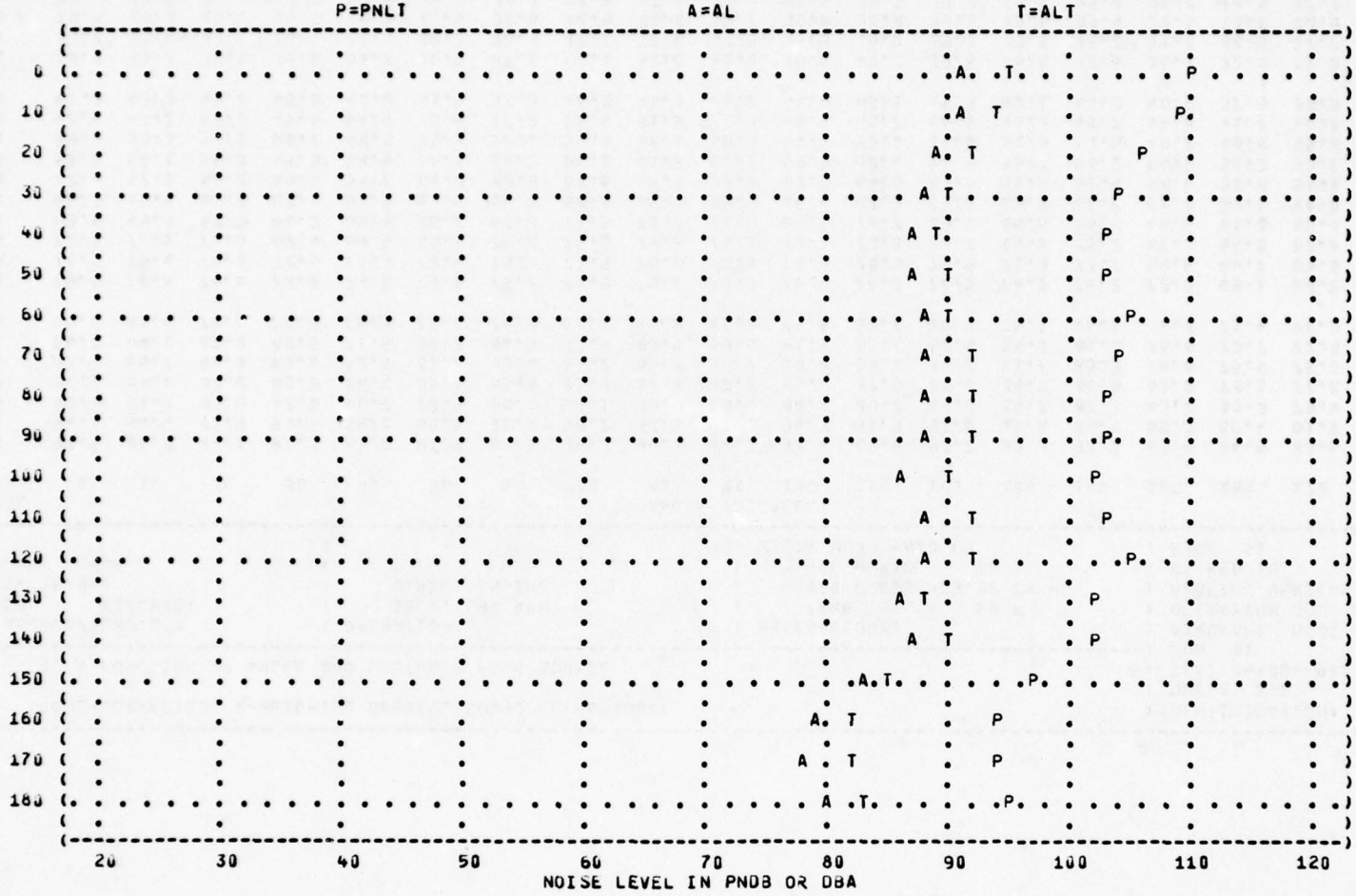


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-032
RUN 02
AIRCRAFT CODE 022
OPERATION CODE 04015
PROFILE VERSION A
05 FEB 76
PAGE C2

NOISE SOURCE/SUBJECT:
C-5A AIRCRAFT
ENG. TF39-1
GROUND RUNUP

OPERATION:
TAXI POWER, 77% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	72	72	73	73	75	74	73	74	75	76	75	73	73	73	71	69	65	65<	65
63	71	70	73	70	73	73	73	73	71	73	73	73	71	71	70	69<	65<	65<	65<
80	74	71	71	72	70	71	72	71	70	71	71	72	71	72	71	70	65<	65<	65<
100	73	72	72	70	69	70	70	70	69	69	70	69	67	70	69	71<	65<	65<	65<
125	74	77	78	76	76	77	76	77	76	73	76	74	70	76	74	72	65<	65<	66<
160	75	75	73	72	72	72	73	73	72	72	72	73	73	72	70	68	65	65<	66
200	76	75	74	73	73	72	73	74	73	72	73	74	72	72	70	68	66	65<	68
250	76	76	74	73	72	72	75	74	73	72	73	73	72	74	71	68	66<	65<	67<
315	76	76	73	72	73	73	74	76	74	72	73	74	73	75	73	69	66	65	67
400	76	75	72	70	70	71	73	74	73	72	70	71	73	73	72	68	64	65	67
500	80	77	74	71	71	72	74	75	73	73	71	72	74	76	73	69	65	66	67
630	88	83	78	76	77	77	78	79	78	76	76	75	78	79	76	77	69	68	69
800	84	84	82	80	80	81	83	86	83	82	82	82	84	84	81	79	75	73	75
1000	91	91	90	90	90	89	92	94	93	93	94	92	98	95	93	91	85	84	84
1250	85	87	85	84	84	82	85	87	83	82	81	82	84	82	81	75	71	71	72
1600	84	86	85	83	83	82	83	84	81	81	80	80	82	80	79	73	70	69	70
2000	87	93	92	91	91	89	94	93	91	89	90	91	95	91	87	82	78	77	78
2500	81	85	84	83	83	81	83	83	81	80	79	82	82	80	78	73	69	68	69
3150	84	86	85	86	85	84	85	86	84	83	84	86	86	83	81	76	72	71	72
4000	85	87	86	85	85	84	85	85	84	83	81	85	85	83	81	75	72	71	72
5000	82	83	81	80	80	78	78	78	76	75	75	79	78	76	73	67	64	63	64
6300	81	83	80	81	80	78	78	78	76	77	74	78	80	77	73	68	65	61	64
8000	74	76	73	72	73	73	72	72	71	69	65	74	72	69	68	59	58	55	58
10000	70	71	70	69	69	68	69	66	66	66	57<	70	69	66	62<	51<	52<	49<	52<
OVERALL	97	98	97	96	96	95	98	98	97	96	97	96	101	98	95	93	87	86	87

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-5A AIRCRAFT
ENG. TF39-1
GROUND RUNUP

OPERATION:
TAXI POWER, 77% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-032
RUN 02
AIRCRAFT CODE 022
OPERATION CODE 04015
PROFILE VERSION A
05 FEB 76
PAGE 02

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	110.7	113.4	112.1	111.2	111.1	109.7	112.8	112.6	110.8	109.4	109.6	111.1	113.5	110.8	107.7	103.8	99.1	98.1	99.2
250	108.3	111.2	109.8	109.0	108.9	107.5	110.6	110.4	108.5	107.2	107.4	108.8	111.3	108.5	105.5	101.6	96.9	95.9	97.0
315	105.9	108.9	107.6	106.7	106.6	105.2	108.3	108.2	106.3	104.9	105.1	106.5	109.1	106.3	103.2	99.4	94.6	93.6	94.7
400	103.4	106.5	105.2	104.3	104.2	102.8	106.0	105.8	103.9	102.6	102.8	104.2	106.7	103.9	100.9	97.1	92.3	91.2	92.4
500	100.9	104.1	102.8	101.9	101.8	100.4	103.6	103.4	101.5	100.1	100.4	101.7	104.3	101.5	98.5	94.8	89.8	88.8	90.0
630	98.4	101.5	100.2	99.3	99.2	97.8	101.0	100.9	99.0	97.6	97.9	99.2	101.8	99.0	95.9	92.4	87.4	86.4	87.5
800	95.7	98.9	97.5	96.6	96.6	95.1	98.4	98.3	96.3	95.0	95.3	96.5	99.2	96.4	93.3	89.8	84.9	83.9	84.8
1000	92.8	96.0	94.7	93.8	93.7	92.3	95.6	95.5	93.5	92.2	92.5	93.7	96.4	93.6	90.5	87.2	82.2	81.2	82.0
1250	89.8	93.0	91.7	90.8	90.7	89.3	92.6	92.5	90.6	89.2	89.5	90.7	93.4	90.6	87.6	84.5	79.4	78.4	79.1
1600	86.6	89.8	88.5	87.5	87.5	86.0	89.4	89.3	87.4	86.0	86.4	87.4	90.3	87.5	84.7	81.6	76.4	75.4	76.1
2000	83.1	86.3	85.0	84.0	84.0	82.6	86.0	85.9	84.0	82.5	83.0	83.9	86.9	84.1	81.5	78.5	73.3	72.3	73.0
2500	79.4	82.5	81.2	80.2	80.2	78.7	82.3	82.2	80.2	78.8	79.3	80.1	83.1	80.4	78.2	75.2	69.9	68.9	69.5
3150	75.6	78.3	77.0	75.9	75.9	74.5	78.1	78.1	76.0	75.2	75.6	75.9	79.1	76.7	74.5	71.6	66.2	65.3	65.9
4000	71.4	73.7	72.3	71.2	71.2	69.8	73.4	73.4	71.6	71.1	71.6	71.2	75.2	72.8	70.6	67.7	62.2	61.3	61.8
5000	67.0	68.9	67.1	66.0	66.0	64.5	68.3	68.8	67.2	66.8	67.3	66.5	71.0	68.5	66.3	63.5	57.8	56.9	57.4
6300	62.2	62.6	61.1	60.5	60.5	59.0	62.4	64.0	62.5	62.0	62.6	61.6	66.3	63.8	61.6	58.8	53.0	52.0	52.6
8000	57.3	57.5	55.9	55.3	55.4	54.4	57.4	59.0	57.4	57.0	57.6	56.5	61.4	58.9	56.7	53.9	47.9	46.9	47.3
10000	51.6	51.7	50.1	49.4	49.4	48.5	51.5	53.3	51.7	51.3	51.9	50.6	55.8	53.3	51.0	48.2	41.8	40.8	41.3
12500	45.4	45.0	43.0	42.3	42.3	41.4	44.7	46.8	45.1	44.8	45.4	43.9	49.3	46.9	44.5	41.4	33.8	32.6	33.3
16000	38.1	38.0	34.2	32.9	33.0	32.1	36.1	38.4	36.5	36.2	36.7	34.8	41.7	38.7	36.0	33.1	24.8	23.5	23.8
20000	29.9	29.2	22.4	21.1	21.2	19.8	25.4	27.9	25.8	25.5	26.5	23.7	31.5	28.7	25.4	22.7	10.3	8.5	8.5
25000	17.8	7.8	10.6	9.4	9.5	7.6	14.7	9.3	7.5	7.5	9.3	12.7	16.3	11.0	7.5	12.2			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-5A AIRCRAFT
ENG. TF39-1
GROUND RUNUP

OPERATION:
TAXI POWER, 77% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-032
RUN 02
AIRCRAFT CODE 022
OPERATION CODE 04015
PROFILE VERSION A
05 FEB 76
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	112.9	115.6	114.3	113.9	113.8	112.3	116.2	115.5	114.1	113.1	113.8	114.4	118.3	114.8	111.7	108.5	103.2	102.1	102.8
250	110.5	113.4	112.1	111.7	111.6	110.0	114.0	113.3	111.9	110.9	111.6	112.2	116.0	112.6	109.5	106.3	100.9	99.9	100.6
315	108.2	111.1	109.8	109.4	109.3	107.7	111.7	111.1	109.0	108.6	109.3	109.9	113.8	110.3	107.3	104.1	98.7	97.6	98.3
400	105.7	108.7	107.4	107.0	107.0	105.4	109.4	108.7	107.3	106.3	107.0	107.5	111.4	108.0	104.9	101.8	96.3	95.3	96.0
500	103.1	106.3	105.0	104.6	104.5	102.9	106.9	106.3	104.9	103.9	104.6	105.1	109.0	105.6	102.5	99.5	93.9	92.9	93.5
630	100.6	103.8	102.4	102.0	102.0	100.4	104.4	103.8	102.3	101.3	102.1	102.6	106.5	103.0	100.0	97.1	91.4	90.4	91.0
800	97.9	101.1	99.8	99.3	99.3	97.7	101.8	101.2	99.7	98.7	99.5	99.9	103.9	100.4	97.3	94.6	88.9	87.9	88.4
1000	95.6	98.3	96.9	96.5	96.4	94.8	99.0	98.4	96.9	95.9	96.7	97.0	101.1	97.5	94.6	91.9	86.2	85.3	85.6
1250	92.6	95.2	93.9	93.5	93.4	91.8	96.0	95.4	93.9	92.9	93.8	94.0	98.1	94.7	91.7	89.2	83.4	82.5	82.7
1600	88.8	92.0	90.7	90.2	90.2	88.6	92.8	92.2	90.0	89.7	90.6	90.8	95.0	91.5	88.7	86.3	80.5	79.5	79.7
2000	85.3	88.6	87.2	86.7	86.7	85.1	89.4	88.8	87.3	86.3	87.2	87.3	91.6	88.1	85.6	83.2	77.3	76.4	76.5
2500	81.6	84.7	83.4	82.9	82.9	81.3	85.6	85.1	83.6	82.5	83.5	83.5	87.9	84.4	82.2	79.9	73.9	73.0	73.1
3150	77.8	80.6	79.2	78.7	78.6	77.0	81.5	80.9	79.4	78.9	79.8	79.3	83.8	80.8	78.6	76.3	70.3	69.3	69.4
4000	73.2	75.4	74.0	73.4	73.4	71.8	76.1	75.7	74.3	74.1	75.0	73.9	79.0	76.0	73.8	71.5	65.5	64.5	64.7
5000	68.3	69.8	68.4	67.6	67.6	66.1	70.3	70.6	69.3	69.0	69.9	68.5	73.8	70.9	68.7	66.3	60.2	59.3	59.5
6300	63.1	63.5	62.0	61.6	61.6	60.0	63.8	63.2	63.8	63.2	64.3	63.0	68.2	65.4	63.2	60.7	54.6	53.6	54.0
8000	57.7	58.0	56.4	55.9	55.9	55.0	58.0	57.6	58.1	57.8	58.5	57.1	62.3	59.7	57.5	54.9	48.7	47.7	48.0
10000	51.6	51.7	50.1	49.4	49.4	48.2	51.2	53.3	51.7	51.3	51.9	50.6	55.8	53.3	51.0	48.2	41.8	40.8	41.3
12500	45.4	45.0	43.0	42.3	42.3	41.4	44.7	46.8	45.1	44.8	45.4	43.9	49.3	46.9	44.5	41.4	33.8	32.6	33.3
16000	38.1	36.6	34.2	32.9	33.0	32.1	36.1	38.4	36.5	36.2	36.7	34.8	41.7	38.7	36.0	33.1	24.8	23.5	23.8
20000	29.9	25.2	22.4	21.1	21.2	19.8	25.4	27.9	25.8	25.5	26.5	23.7	31.5	28.7	25.4	22.7	10.3	8.5	8.5
25000	17.8	7.8	10.6	9.4	9.5	7.6	14.7	9.3	7.5	7.5	9.3	12.7	16.3	11.0	7.5	12.2			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-5A AIRCRAFT
ENG. TF39-1
GROUND RUNUP

OPERATION:
TAXI POWER, 77% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-032
RUN 02
AIRCRAFT CODE 022
OPERATION CODE 04015
PROFILE VERSION A
05 FEB 76
PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	98.6	100.7	99.5	98.8	98.7	97.3	100.4	100.9	99.2	98.4	99.0	99.1	103.0	99.9	97.5	94.5	89.2	88.2	88.7
250	96.4	96.5	97.3	96.6	96.5	95.1	98.2	98.8	97.0	96.2	96.8	96.9	100.9	97.8	95.4	92.4	87.1	86.1	86.6
315	94.2	96.3	95.1	94.4	94.3	92.9	96.0	96.6	94.8	94.1	94.7	94.7	98.7	95.6	93.2	90.3	84.9	83.9	84.4
400	92.0	94.0	92.8	92.1	92.0	90.6	93.8	94.4	92.6	91.8	92.5	92.4	96.5	93.4	91.0	88.1	82.8	81.8	82.2
500	89.7	91.7	90.5	89.8	89.7	88.3	91.5	92.1	90.3	89.6	90.2	90.1	94.2	91.2	88.8	85.9	80.5	79.5	80.0
630	87.3	89.3	88.0	87.3	87.3	85.9	89.1	89.7	88.0	87.3	87.9	87.7	91.9	88.9	86.5	83.7	78.3	77.3	77.7
800	84.9	86.8	85.5	84.8	84.8	83.4	86.7	87.3	85.6	84.9	85.5	85.2	89.6	86.5	84.2	81.4	75.9	74.9	75.4
1000	82.4	84.2	82.9	82.2	82.2	80.8	84.1	84.8	83.1	82.4	83.1	82.7	87.1	84.1	81.7	79.0	73.5	72.5	72.9
1250	79.8	81.5	80.2	79.5	79.4	78.1	81.4	82.2	80.5	79.8	80.6	80.0	84.6	81.6	79.2	76.6	71.1	70.0	70.4
1600	77.1	78.6	77.4	76.6	76.6	75.3	78.6	79.5	77.8	77.2	77.9	77.2	81.9	78.9	76.6	74.0	68.5	67.5	67.8
2000	74.3	75.6	74.3	73.6	73.6	72.3	75.6	76.6	74.9	74.4	75.1	74.3	79.1	76.1	73.9	71.4	65.7	64.7	65.1
2500	71.4	72.4	71.1	70.4	70.4	69.2	72.5	73.6	71.9	71.4	72.1	71.2	76.1	73.2	70.9	68.5	62.9	61.9	62.2
3150	68.3	69.1	67.7	67.0	67.0	65.8	69.1	70.3	68.7	68.2	69.0	67.9	73.0	70.1	67.8	65.5	59.8	58.8	59.1
4000	64.8	65.4	64.0	63.3	63.4	62.2	65.4	66.8	65.2	64.8	65.6	64.3	69.5	66.7	64.5	62.2	56.5	55.5	55.8
5000	61.6	61.3	60.0	59.4	59.4	58.3	61.4	63.0	61.4	61.1	61.9	60.5	65.8	63.0	60.8	58.6	52.9	51.8	52.1
6300	58.8	56.9	55.5	55.0	55.0	54.0	57.0	58.7	57.2	57.0	57.8	56.3	61.7	58.9	56.8	54.6	48.8	47.8	48.1
8000	52.4	52.2	50.8	50.3	50.3	49.4	52.3	54.2	52.7	52.5	53.3	51.7	57.2	54.4	52.3	50.2	44.4	43.4	43.6
10000	47.7	47.1	45.6	45.1	45.1	44.3	47.1	49.1	47.6	47.4	48.3	46.6	52.1	49.4	47.3	45.3	39.4	38.4	38.7
12500	42.4	41.4	39.7	39.2	39.3	38.5	41.3	43.3	41.9	41.7	42.5	40.8	46.3	43.7	41.6	39.6	33.7	32.7	33.0
16000	36.4	35.0	33.2	32.5	32.6	32.0	34.7	36.7	35.3	35.0	35.8	34.2	39.6	37.1	34.9	33.0	27.2	26.1	26.5
20000	29.8	27.8	25.7	24.9	25.0	24.6	27.1	29.2	27.7	27.4	28.1	26.5	31.7	29.4	27.2	25.3	19.6	18.5	19.0
25000	22.4	19.9	17.4	16.3	16.5	16.3	18.5	20.5	19.0	18.5	19.1	17.8	22.5	20.6	18.3	16.5	10.8	9.9	10.6

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-5A AIRCRAFT
ENG. TF39-1
GROUND RUNUP

OPERATION:
TAXI POWER, 77% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-032
RUN 02
AIRCRAFT CODE 022
OPERATION CODE 04015
PROFILE VERSION A
05 FEB 76
PAGE G2

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	100.8	103.0	101.7	101.5	101.4	99.8	103.8	103.8	102.5	102.1	103.2	102.4	107.7	104.0	101.5	99.2	93.3	92.2	92.2
250	98.7	100.8	99.5	99.4	99.2	97.7	101.6	101.7	100.4	99.9	101.0	100.3	105.6	101.8	99.4	97.1	91.1	90.1	90.1
315	96.4	98.5	97.3	97.1	97.0	95.4	99.4	99.5	98.2	97.8	98.9	98.0	103.4	99.7	97.3	95.0	89.0	88.0	87.9
400	94.2	96.3	95.0	94.8	94.7	93.2	97.2	97.3	96.0	95.6	96.7	95.8	101.2	97.5	95.1	92.8	86.8	85.8	85.8
500	91.9	93.9	92.7	92.5	92.4	90.8	94.9	95.0	93.7	93.3	94.4	93.5	99.0	95.2	92.8	90.6	84.6	83.6	83.5
630	89.5	91.5	90.3	90.1	90.0	88.4	92.5	92.6	91.4	91.3	92.1	91.1	96.7	92.9	90.5	88.4	82.3	81.3	81.2
800	87.1	89.0	87.8	87.5	87.5	85.9	90.0	90.2	89.0	88.6	89.8	88.6	94.3	90.6	88.2	86.1	80.0	79.0	78.9
1000	84.6	86.4	85.2	84.9	84.9	83.3	87.5	87.7	86.5	86.1	87.3	86.0	91.8	88.1	85.8	83.7	77.6	76.6	76.5
1250	82.0	83.7	82.4	82.2	82.2	80.6	84.8	85.1	83.9	83.5	84.8	83.4	89.3	85.6	83.3	81.3	75.1	74.1	74.0
1600	79.3	80.8	79.6	79.3	79.3	77.8	82.0	82.4	81.1	80.9	82.1	80.6	86.6	83.0	80.6	78.7	72.5	71.5	71.4
2000	76.5	77.9	76.6	76.3	76.3	74.9	79.0	79.5	78.3	78.1	79.3	77.7	83.8	80.2	77.9	76.1	69.8	68.8	68.6
2500	73.6	74.7	73.4	73.1	73.1	71.7	75.9	76.5	75.3	75.1	76.4	74.6	80.8	77.2	75.0	73.2	66.9	65.9	65.7
3150	70.5	71.3	69.9	69.7	69.7	68.4	72.5	73.2	72.0	71.9	73.2	71.3	77.7	74.1	71.9	70.2	63.9	62.8	62.7
4000	66.6	67.2	65.8	65.5	65.5	64.3	68.1	69.1	67.9	67.8	69.0	67.1	73.3	69.9	67.7	66.0	59.7	58.7	58.6
5000	62.3	62.7	61.3	61.0	61.0	59.8	63.4	64.7	63.4	63.3	64.4	62.5	68.6	65.4	63.3	61.4	55.3	54.3	54.2
6300	57.6	57.8	56.4	56.1	56.1	55.0	58.4	59.9	58.6	58.5	59.5	57.6	63.6	60.5	58.4	56.5	50.5	49.4	49.5
8000	52.9	52.7	51.2	50.8	50.9	49.9	53.6	54.8	53.4	53.2	54.2	52.4	58.1	55.2	53.1	51.2	45.2	44.2	44.3
10000	47.7	47.1	45.6	45.1	45.1	44.3	47.1	49.1	47.6	47.4	48.3	46.6	52.1	49.4	47.3	45.3	39.4	38.4	38.7
12500	42.4	41.4	39.7	39.2	39.3	38.5	41.3	43.3	41.9	41.7	42.5	40.8	46.3	43.7	41.6	39.6	33.7	32.7	33.0
16000	36.4	35.0	33.2	32.5	32.6	32.0	34.7	36.7	35.3	35.0	35.8	34.2	39.6	37.1	34.9	33.0	27.2	26.1	26.5
20000	29.8	27.8	25.7	24.9	25.0	24.6	27.1	29.2	27.7	27.4	28.1	26.5	31.7	29.4	27.2	25.3	19.6	18.5	19.0
25000	22.4	19.9	17.4	16.3	16.5	16.3	18.5	20.5	19.0	18.5	19.1	17.8	22.5	20.5	18.3	16.5	10.8	9.9	10.5

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
C-5A AIRCRAFT
ENG. TF39-1
GROUND RUNUP

OPERATION:
TAXI POWER, 77% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-032
RUN 02
AIRCRAFT CODE 022
OPERATION CODE 04015
PROFILE VERSION A
05 FEB 76
PAGE J2

P=PNLT A=AL T=ALT

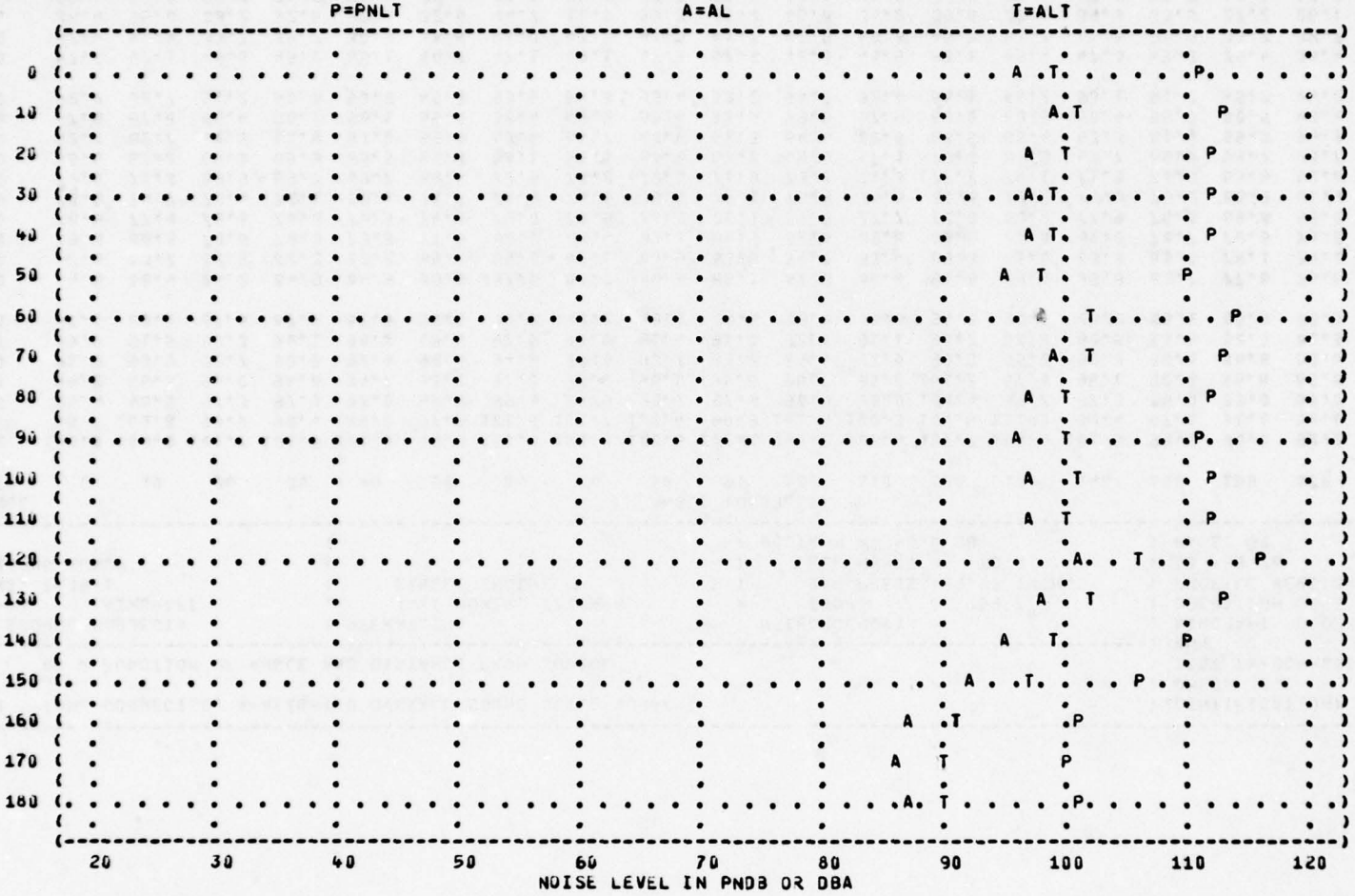


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-033
RUN 01
AIRCRAFT CODE 022
OPERATION CODE 04030
PROFILE VERSION A
06 FEB 76
PAGE C1

NOISE SOURCE/SUBJECT:
C-5A AIRCRAFT
ENG. TF39-1
GROUND RUNUP

OPERATION:
TAKEOFF POWER, 94% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
50	89	88	89	90	90	90	91	91	91	91	92	94	97	102	101	97	90	84	77
63	91	88	88	89	89	91	89	90	90	91	92	94	97	100	100	94	88	81	74
80	92	91	91	91	92	91	92	91	92	92	94	95	98	99	100	95	88	81	75
100	92	93	92	93	91	92	93	92	92	92	94	94	97	98	99	94	87	81	74
125	93	92	92	92	93	92	94	94	94	93	95	95	98	99	99	94	87	81	74
160	95	93	94	94	94	95	95	95	95	96	97	97	99	100	98	95	88	82	75
200	94	95	94	94	94	94	95	94	95	95	95	96	98	98	96	93	87	80	73
250	92	93	91	92	91	94	93	93	94	95	96	95	95	95	93	90	83	76	70
315	92	93	92	92	91	94	95	95	94	94	93	95	95	94	92	89	82	75	69
400	91	91	89	89	89	91	93	94	92	92	92	93	93	92	89	87	80	74	67
500	93	93	91	89	90	93	94	96	94	93	93	95	95	91	89	87	81	74	67
630	94	94	92	91	90	95	97	98	96	94	93	97	96	92	89	87	80	73	67
800	94	95	93	91	90	94	95	97	95	94	93	95	95	91	87	86	79	73	66
1000	97	97	97	95	96	99	99	101	100	99	98	98	97	93	88	87	80	74	67
1250	99	100	104	101	102	102	104	105	103	102	102	103	100	97	93	90	83	77	70
1600	100	102	103	101	101	101	102	104	102	101	99	102	100	98	93	91	85	78	71
2000	103	105	105	105	104	106	107	110	108	107	105	111	110	106	100	98	91	84	78
2500	98	100	101	101	100	103	103	105	104	105	101	106	104	105	101	97	91	84	77
3150	98	100	101	100	100	103	103	103	103	103	100	104	101	100	96	92	85	79	72
4000	100	102	102	102	102	104	105	106	105	105	104	108	106	103	98	95	88	81	75
5000	94	95	96	96	96	98	98	100	99	100	97	104	99	99	95	90	84	77	70
6300	95	95	96	96	96	98	99	101	100	101	99	106	102	99	94	89	82	75	69
8000	89	90	91	92	92	94	95	98	97	97	96	103	102	95	89	84	78	71	64
10000	87	88	88	89	89	92	93	96	97	98	97	105	101	95	88	81	75	68	61
OVERALL	110	111	112	111	111	113	113	115	114	114	112	117	115	113	110	107	100	93	87

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-5A AIRCRAFT
ENG. TF39-1
GROUND RUNUP

OPERATION:
TAKEOFF POWER, 94% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-033
RUN 01
AIRCRAFT CODE 022
OPERATION CODE 04030
PROFILE VERSION A
06 FEB 76
PAGE 01

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	125.3	126.7	126.9	126.6	126.5	128.5	129.3	131.0	129.6	129.6	128.3	132.4	131.0	129.0	125.1	121.4	114.7	108.0	101.2
250	123.0	124.4	124.0	124.3	124.2	126.2	127.0	128.7	127.3	127.3	126.0	130.1	128.7	126.7	122.8	119.1	112.5	105.7	98.9
315	120.7	122.1	122.4	122.0	121.8	123.8	124.6	126.4	125.0	124.9	123.6	127.8	126.4	124.4	120.5	116.8	110.2	103.4	96.6
400	118.4	119.8	120.0	119.7	119.3	121.3	122.1	124.1	122.7	122.5	121.1	125.4	124.0	122.0	118.2	114.5	107.8	101.0	94.2
500	115.9	117.3	117.6	117.2	116.7	118.7	119.6	121.6	120.2	120.0	118.4	122.8	121.5	119.5	115.7	112.0	105.3	98.5	91.7
630	113.4	114.8	115.0	114.7	114.2	116.2	117.0	119.0	117.6	117.4	115.6	120.2	118.9	116.9	113.1	109.4	102.7	95.9	89.0
800	110.7	112.1	112.3	112.0	111.5	113.5	114.3	116.3	114.9	114.6	112.8	117.4	116.2	114.1	110.4	106.7	99.9	93.1	86.3
1000	107.9	109.3	109.5	109.1	108.6	110.6	111.5	113.5	112.0	111.6	109.9	114.5	113.3	111.2	107.5	103.8	97.0	90.1	83.3
1250	104.8	106.3	106.4	106.1	105.5	107.5	108.4	110.5	109.0	108.5	106.8	111.4	110.2	108.0	104.3	100.6	93.8	87.0	80.1
1600	101.6	103.0	103.2	102.8	102.2	104.2	105.1	107.2	105.7	105.1	103.5	108.0	106.9	104.6	100.9	97.2	90.4	83.5	76.7
2000	98.0	99.5	99.6	99.2	98.7	100.7	101.6	103.7	102.1	101.5	99.9	104.4	103.3	100.8	97.1	93.5	86.6	79.8	72.9
2500	94.2	95.6	95.8	95.3	94.8	96.8	97.7	99.8	98.2	97.6	96.0	100.5	99.4	96.7	92.9	89.4	82.6	75.8	68.8
3150	90.0	91.4	91.5	91.0	90.5	92.5	93.4	95.6	94.0	93.3	91.7	96.1	95.1	92.3	88.2	85.1	78.3	71.3	64.3
4000	85.2	86.7	86.8	86.3	85.7	87.8	88.7	90.9	89.2	88.5	86.9	91.3	90.3	87.5	82.9	80.2	73.3	66.3	59.2
5000	80.0	81.4	81.6	81.0	80.4	82.5	83.4	85.6	84.0	83.2	81.6	86.0	85.0	82.1	77.5	74.9	67.9	60.8	53.4
6300	74.2	75.6	76.1	75.1	74.6	76.6	77.6	79.8	78.1	77.3	75.8	80.1	79.1	76.2	71.5	68.9	61.8	54.5	46.5
8000	68.6	69.9	70.7	68.9	69.1	70.5	71.7	73.6	71.9	71.1	70.0	73.8	73.0	70.1	65.5	62.9	55.6	47.6	38.7
10000	62.3	63.6	64.8	62.8	63.2	64.4	65.9	67.2	65.5	64.6	64.2	66.8	66.1	63.3	59.0	56.2	47.9	38.8	28.5
12500	56.3	56.8	58.2	56.1	56.6	57.8	59.4	60.6	58.9	58.1	57.7	59.5	58.9	55.3	53.3	50.2	41.5	31.3	15.3
16000	50.3	50.7	50.5	48.2	48.0	51.2	52.8	54.1	52.4	51.3	50.9	53.3	53.1	50.2	47.2	43.7	33.6	20.1	2.2
20000	43.2	43.5	41.3	40.0	40.6	43.8	45.4	47.1	45.1	43.9	43.9	46.2	46.3	43.2	40.1	36.3	23.6	7.4	
25000	34.9	34.8	33.3	31.0	31.9	35.7	37.0	38.9	36.8	35.9	36.0	38.1	38.3	34.8	32.1	25.9	9.0		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-5A AIRCRAFT
ENG. TF39-1
GROUND RUNUP

OPERATION:
TAKEOFF POWER, 94% RP .
SINGLE ENGINE

METEOROLOGY:
TEMP . = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-033
RUN 01
AIRCRAFT CODE 022
OPERATION CODE 04030
PROFILE VERSION A
06 FEB 76
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	126.4	128.0	128.2	127.7	127.6	129.6	130.6	132.5	131.0	130.7	130.0	134.5	133.3	130.2	126.5	122.5	115.8	109.1	102.3
250	124.1	125.7	125.9	125.4	125.3	127.2	128.3	130.3	128.7	128.4	127.6	132.2	131.1	127.9	124.3	120.2	113.6	106.8	100.1
315	121.8	123.4	123.6	123.2	122.9	124.8	125.9	128.0	126.4	126.0	125.2	129.8	128.8	125.6	122.0	118.0	111.3	104.5	97.7
400	119.5	121.1	121.2	120.8	120.4	122.3	123.4	125.6	124.1	123.6	122.7	127.4	126.4	123.2	119.6	115.6	108.9	102.1	95.3
500	117.0	118.6	118.8	118.3	117.8	119.8	120.8	123.2	121.6	121.1	120.0	124.9	123.9	120.7	117.2	113.1	106.4	99.6	92.8
630	114.5	116.1	116.2	115.8	115.3	117.2	118.3	120.6	119.0	118.4	117.2	122.3	121.3	118.1	114.6	110.6	103.8	97.0	90.2
800	111.8	113.4	113.6	113.1	112.6	114.5	115.6	117.9	116.3	115.6	114.4	119.5	118.6	115.4	111.9	107.8	101.0	94.2	87.4
1000	109.0	110.6	110.7	110.2	109.7	111.7	112.7	115.1	113.4	112.7	111.5	116.6	115.7	112.4	109.0	104.9	98.1	91.3	84.4
1250	105.9	107.5	107.7	107.2	106.7	108.6	109.7	112.0	110.4	109.5	108.5	113.5	112.6	109.3	105.8	101.8	94.9	88.1	81.2
1600	102.7	104.3	104.4	103.9	103.4	105.3	106.4	108.7	107.1	106.2	105.1	110.1	109.3	105.8	102.4	98.3	91.5	84.6	77.8
2000	99.2	100.8	100.9	100.3	99.8	101.8	102.9	105.2	103.5	102.6	101.5	106.5	105.7	102.0	98.5	94.6	87.7	80.9	74.0
2500	95.3	96.9	97.0	96.4	95.9	97.9	99.0	101.4	99.6	98.7	97.6	102.5	101.8	98.0	94.3	90.6	83.7	76.9	69.9
3150	91.1	92.7	92.8	92.1	91.6	93.6	94.7	97.1	95.4	94.4	93.3	98.2	97.5	93.5	89.7	86.2	79.4	72.4	65.4
4000	86.1	87.7	87.8	87.2	86.6	88.6	89.7	92.1	90.3	89.4	88.2	93.0	92.2	88.5	84.1	81.1	74.2	67.2	60.1
5000	80.7	82.2	82.3	81.6	81.1	83.1	84.2	86.6	84.8	83.8	82.6	87.2	86.5	82.9	78.4	75.5	68.6	61.5	54.1
6300	74.6	76.1	76.6	75.5	75.0	77.0	78.1	80.4	78.7	77.7	76.4	80.9	80.1	76.7	72.1	69.3	62.2	55.0	46.9
8000	68.8	70.2	71.0	69.1	69.3	70.7	72.0	73.9	72.2	71.3	70.3	74.2	73.4	70.3	65.8	63.1	55.8	47.9	38.9
10000	62.3	63.6	64.8	62.8	63.2	64.4	65.9	67.2	65.5	64.0	64.2	66.8	66.1	63.3	59.0	56.2	47.9	38.8	28.5
12500	56.3	56.8	58.2	56.1	56.6	57.8	59.4	60.6	58.9	58.1	57.7	59.5	58.9	56.3	53.3	50.2	41.5	31.3	15.3
16000	50.3	50.7	50.5	48.2	48.0	51.2	52.8	54.1	52.4	51.3	50.9	53.3	53.1	50.2	47.2	43.7	33.6	20.1	2.2
20000	43.2	43.5	41.9	40.0	40.6	43.8	45.4	47.1	45.1	43.9	43.9	46.2	46.3	43.2	40.1	36.3	23.6	7.4	
25000	34.9	34.8	33.3	31.0	31.9	35.7	37.0	38.9	36.8	35.9	36.0	38.1	38.3	34.8	32.1	25.9	9.0		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-033
RUN 01
AIRCRAFT CODE 022
OPERATION CODE 04030
PROFILE VERSION A
06 FEB 76
PAGE F1

NOISE SOURCE/SUBJECT:
C-5A AIRCRAFT
ENG. TF39-1
GROUND RUNUP

OPERATION:
TAKEOFF POWER, 94% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	111.9	113.6	114.4	113.6	113.3	115.2	116.0	117.8	116.4	116.3	114.3	119.1	117.1	114.7	110.0	106.7	100.0	93.4	86.7
250	109.7	111.3	112.2	111.5	111.1	113.0	113.7	115.6	114.2	114.0	112.0	116.8	114.8	112.4	107.7	104.5	97.8	91.1	84.5
315	107.4	109.1	109.9	109.0	108.8	110.7	111.5	113.3	111.9	111.6	109.7	114.4	112.4	110.1	105.4	102.2	95.5	88.8	82.2
400	105.1	106.8	107.6	106.7	106.5	108.3	109.1	111.0	109.5	109.2	107.3	111.9	110.0	107.7	103.0	99.8	93.2	86.5	79.8
500	102.7	104.4	105.2	104.3	104.0	105.9	106.7	108.6	107.1	106.8	104.8	109.3	107.5	105.2	100.5	97.4	90.7	84.1	77.4
630	100.2	101.9	102.8	101.8	101.5	103.3	104.2	106.1	104.6	104.2	102.2	106.7	105.0	102.6	98.0	94.9	88.2	81.5	74.9
800	97.7	99.3	100.2	99.2	98.9	100.7	101.6	103.5	101.9	101.5	99.6	104.0	102.3	99.9	95.3	92.2	85.6	78.9	72.2
1000	95.0	96.6	97.6	96.5	96.2	98.0	98.8	100.8	99.2	98.7	96.8	101.1	99.5	97.1	92.4	89.5	82.8	76.1	69.5
1250	92.2	93.8	94.8	93.6	93.4	95.1	96.0	97.9	96.3	95.8	93.9	98.1	96.6	94.1	89.4	86.5	79.9	73.2	66.5
1600	89.3	90.8	91.8	90.6	90.4	92.0	93.0	94.9	93.3	92.7	90.9	95.0	93.5	91.0	86.3	83.4	76.8	70.1	63.4
2000	86.2	87.7	88.7	87.4	87.2	88.8	89.8	91.8	90.1	89.4	87.7	91.7	90.2	87.6	82.9	80.1	73.5	66.8	60.1
2500	82.9	84.3	85.4	83.9	83.8	85.4	86.4	88.4	86.6	85.9	84.3	88.1	86.6	83.9	79.2	76.6	69.9	63.2	56.6
3150	79.4	80.7	81.8	80.2	80.2	81.7	82.8	84.7	82.9	82.1	80.7	84.2	82.8	79.9	75.2	72.7	66.0	59.4	52.7
4000	75.5	76.7	77.9	76.2	76.2	77.7	78.8	80.7	78.9	78.1	76.7	80.0	78.6	75.6	70.9	68.5	61.8	55.2	48.5
5000	71.2	72.4	73.6	71.7	71.9	73.3	74.5	76.3	74.5	73.6	72.4	75.4	73.9	70.8	66.1	63.8	57.2	50.5	43.8
6300	66.5	67.6	68.8	66.8	67.1	68.5	69.7	71.5	69.7	68.7	67.7	70.2	68.8	65.5	60.9	58.8	52.1	45.5	38.8
8000	61.7	62.5	63.7	61.5	61.9	63.5	64.7	66.4	64.6	63.6	62.7	64.9	63.5	60.1	55.8	53.7	47.1	40.4	33.7
10000	56.5	57.1	58.0	55.8	56.2	58.1	59.3	60.9	59.1	58.1	57.3	59.2	57.9	54.4	50.5	48.5	41.9	35.2	28.5
12500	50.8	51.4	51.7	49.6	50.0	52.2	53.4	55.0	53.2	52.1	51.5	53.2	52.2	48.7	45.2	43.2	36.6	29.9	23.2
16000	44.8	45.2	44.9	43.0	43.3	46.0	47.1	48.7	46.9	45.8	45.2	47.0	46.3	42.9	40.0	37.8	31.2	24.5	17.8
20000	38.5	38.7	37.8	36.1	36.3	39.3	40.5	42.0	40.3	39.2	38.6	40.6	40.2	37.2	34.7	32.3	25.6	19.0	12.3
25000	31.7	31.9	30.5	29.2	29.3	32.4	33.6	35.0	33.3	32.3	31.9	34.0	33.8	31.5	29.6	26.8	20.1	13.4	6.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-5A AIRCRAFT
ENG. TF39-1
GROUND RUNUP

OPERATION:
TAKEOFF POWER, 94% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 3.2
TEST 74-004-033
RUN 01
AIRCRAFT CODE 022
OPERATION CODE 04030
PROFILE VERSION A
06 FEB 76
PAGE G1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	113.0	114.8	115.6	114.7	114.4	116.3	117.3	119.4	117.8	117.3	115.9	121.2	119.5	115.9	111.4	107.8	101.2	94.5	87.8
250	110.8	112.6	113.4	112.4	112.2	114.0	115.0	117.2	115.6	115.0	113.6	118.8	117.2	113.6	109.2	105.6	98.9	92.2	85.6
315	108.5	110.4	111.2	110.2	109.9	111.7	112.7	114.9	113.3	112.7	111.3	116.4	114.8	111.3	106.8	103.3	96.6	90.0	83.3
400	106.2	108.0	108.9	107.8	107.6	109.4	110.4	112.5	110.9	110.3	108.9	113.9	112.4	108.9	104.5	100.9	94.3	87.6	80.9
500	103.8	105.6	106.5	105.4	105.1	106.9	108.0	110.1	108.5	107.8	106.4	111.4	109.9	106.4	102.0	98.5	91.8	85.2	78.5
630	101.4	103.2	104.0	102.9	102.6	104.4	105.4	107.6	105.9	105.3	103.9	108.8	107.3	103.8	99.4	96.0	89.3	82.6	76.0
800	98.8	100.6	101.5	100.3	100.1	101.8	102.8	105.0	103.3	102.6	101.2	106.0	104.7	101.2	96.7	93.3	86.7	80.0	73.3
1000	96.1	97.9	98.8	97.6	97.3	99.0	100.1	102.3	100.6	99.8	98.4	103.2	101.9	98.3	93.9	90.6	83.9	77.2	70.6
1250	93.3	95.1	96.0	94.7	94.5	96.1	97.3	99.5	97.7	96.9	95.6	100.2	99.0	95.4	90.9	87.7	81.0	74.3	67.7
1600	90.4	92.1	93.1	91.7	91.5	93.1	94.2	96.5	94.7	93.8	92.5	97.1	95.9	92.2	87.7	84.6	77.9	71.2	64.6
2000	87.3	89.0	90.0	88.5	88.3	89.9	91.1	93.3	91.5	90.5	89.3	93.7	92.6	88.8	84.3	81.3	74.6	67.9	61.3
2500	84.0	85.8	86.8	85.0	84.9	86.4	87.7	89.9	88.0	87.0	85.9	90.2	89.0	85.1	80.7	77.7	71.0	64.4	57.7
3150	80.5	82.9	83.8	81.3	81.3	82.7	84.8	86.3	84.3	83.2	82.3	86.3	85.2	81.2	76.7	73.8	67.2	60.5	53.8
4000	76.4	77.8	78.9	77.0	77.1	78.5	79.8	81.9	80.0	78.9	78.0	81.7	80.5	76.6	72.0	69.4	62.7	56.0	49.4
5000	71.9	73.1	74.3	72.4	72.6	73.9	75.2	77.2	75.3	74.2	73.4	76.6	75.4	71.5	67.0	64.5	57.8	51.2	44.5
6300	67.0	68.1	69.3	67.3	67.6	69.0	70.2	72.1	70.2	69.1	68.3	71.1	69.7	66.0	61.5	59.2	52.6	45.9	39.2
8000	61.9	62.8	63.9	61.8	62.2	63.7	64.9	66.7	64.9	63.8	63.0	65.3	63.9	60.3	56.1	54.0	47.3	40.6	34.0
10000	56.5	57.1	58.0	55.8	56.2	58.1	59.3	60.9	59.1	58.1	57.3	59.2	57.9	54.4	50.5	48.5	41.9	35.2	28.5
12500	50.8	51.4	51.7	49.6	50.0	52.2	53.4	55.0	53.2	52.1	51.5	53.2	52.2	48.7	45.2	43.2	36.6	29.9	23.2
16000	44.8	45.2	44.9	43.0	43.3	46.0	47.1	48.7	46.9	45.8	45.2	47.0	46.3	42.9	40.0	37.8	31.2	24.5	17.8
20000	38.5	38.7	37.8	36.1	36.3	39.3	40.5	42.0	40.3	39.2	38.6	40.6	40.2	37.2	34.7	32.3	25.6	19.0	12.3
25000	31.7	31.9	30.9	29.2	29.3	32.4	33.6	35.0	33.3	32.3	31.9	34.0	33.8	31.5	29.6	26.8	20.1	13.4	6.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

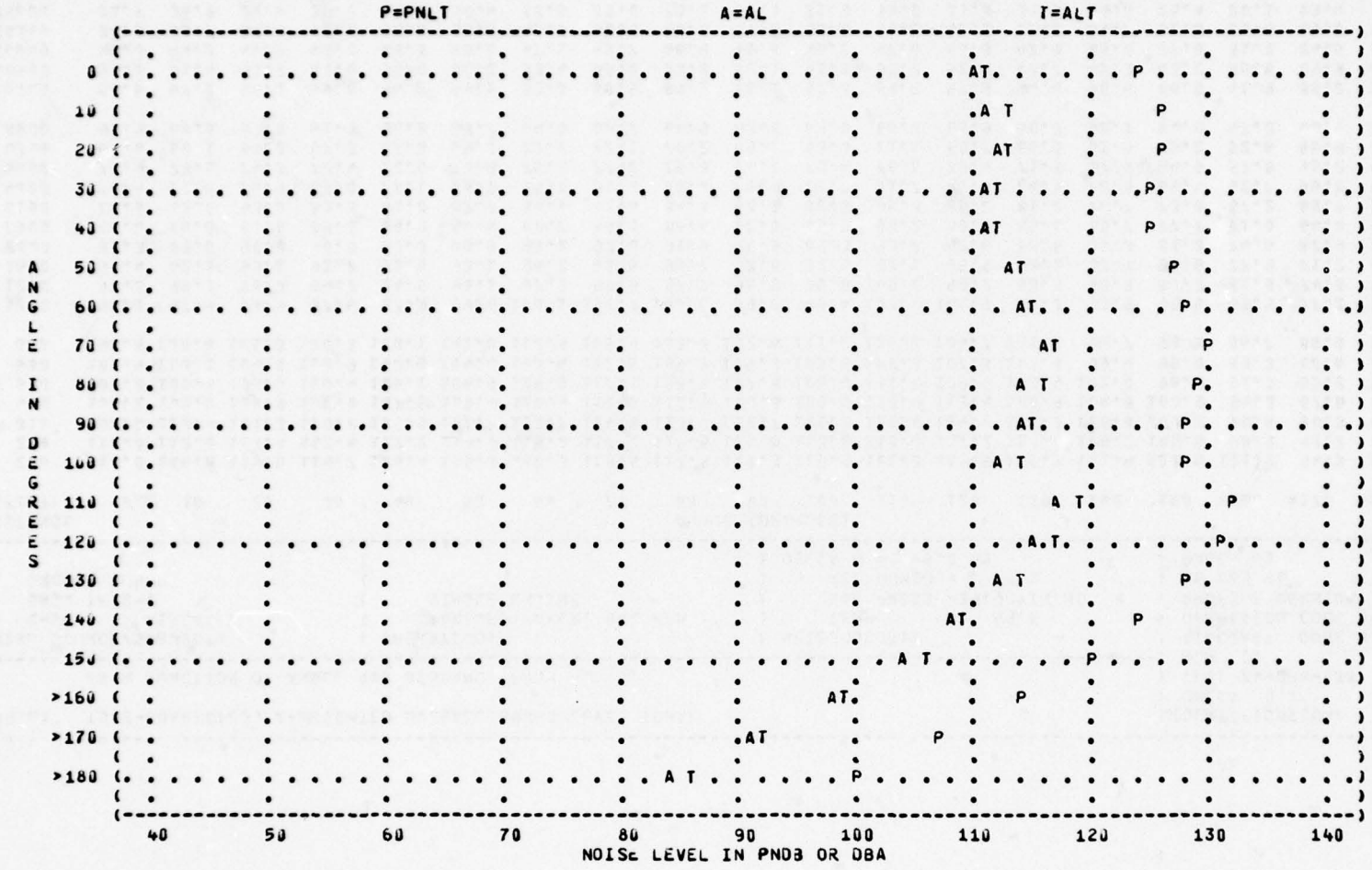
NOISE SOURCE/SUBJECT:
C-5A AIRCRAFT
ENG. TF39-1
GROUND RUNUP

OPERATION:
TAKEOFF POWER, 94% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-004-033
RUN 01
AIRCRAFT CODE 022
OPERATION CODE 04030
PROFILE VERSION A
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P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAF C-9 AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

C-9 AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 073
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

POWER SETTING — PAGE

TAKEOFF - 1.97 EPR . . . . . 418 - 426
APPROACH - 1.35 EPR . . . . . 427 - 435
INTERMED - 1.70 EPR . . . . . 436 - 444

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
AIR-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO



C-9 TAKEOFF POWER 1.97 EPR

AIRSPEED = 250 KNOTS
SLANT DISTANCE = 1000 FEET
NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %
IDENT: 6.6-073-103-270176

PNLT = 109.9 PNDB
PNL = 109.4 PNDB
ALT = 98.4 DBA
AL = 97.9 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: C-9

OPERATION: TAKEOFF POWER, 1.97 EPR, AIRSPEED = 250 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 073
OPS CODE: 103
PROFILE VER: A
27 JAN 76
PAGE H1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	91	90	88	96	104	107	103	104	106	106	106	106	105	104	102	103	103	102	101	101	96	96	99	108
250	89	88	86	94	102	105	101	102	104	104	103	104	103	102	100	100	100	99	99	98	93	93	96	104
315	87	86	84	92	100	103	99	100	102	102	101	102	101	100	98	98	98	97	97	96	91	90	92	100
400	85	84	82	90	98	101	97	98	100	100	99	100	99	98	96	96	96	95	94	93	88	86	88	95
500	83	82	80	88	96	99	95	96	98	98	97	97	97	96	94	94	93	92	91	90	84	83	84	89
630	81	80	78	86	94	97	93	94	96	96	95	95	95	93	91	91	91	89	88	86	81	78	79	83
800	79	78	76	84	92	95	91	92	94	94	93	93	92	91	89	89	88	87	85	83	77	74	73	75
1000	77	76	74	82	90	93<	89	90	92	92	91	91	90	89	87	86	85	83	82	79	72	68	66	65
1250	75	74	72	80	88	90	86	87	90	90	88	88	88	86	84	83	82	80	78	74	67	62	57	54
1600	73	72	70	78	86	88	84	85	88	87	86	86	85	83	81	80	79	76	73	69	61	54	47	40
2000	71	70	68	76	84	86	82	83	85	85	84	84	82	81	78	77	75	72	68	63	54	45	35	23
2500	68	68	66	74	82	84	80	81	83	83	81	81	80	78	75	73	71	67	63	55	46	34	20	3
3150	66	66	64	71	79	82	78	78	81	80	79	78	77	74	71	69	67	62	56	47	36	21	2	
4000	64	63	62	69	77	80	75	76	78	77	76	75	73	71	67	65	61	55	48	36	25	6		
5000	62	61	59	67	75	77	73	74	75	75	73	72	70	67	63	59	55	48	39	24	10			
6300	60	59	57	65	73	75	71	71	73	72	70	68	66	62	57	53	48	39	27	9				
8000	58	57	55	62	70	72	68	68	70	68	66	64	61	57	51	46	39	28	13					
10000	56	55	53	60	68	70	65	65	66	65	62	60	56	51	44	37	29	15						
12500	54	52	50	58	65	67	62	62	63	61	57	55	50	44	36	27	16							
16000	51	50	48	55	62	64	59	58	59	56	52	49	43	36	26	15	1							
20000	49	48	45	52	59	61	55	54	55	51	46	42	34	25	14									
25000	46	45	42	49	56	57	51	50	49	45	39	33	24	13										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: C-9

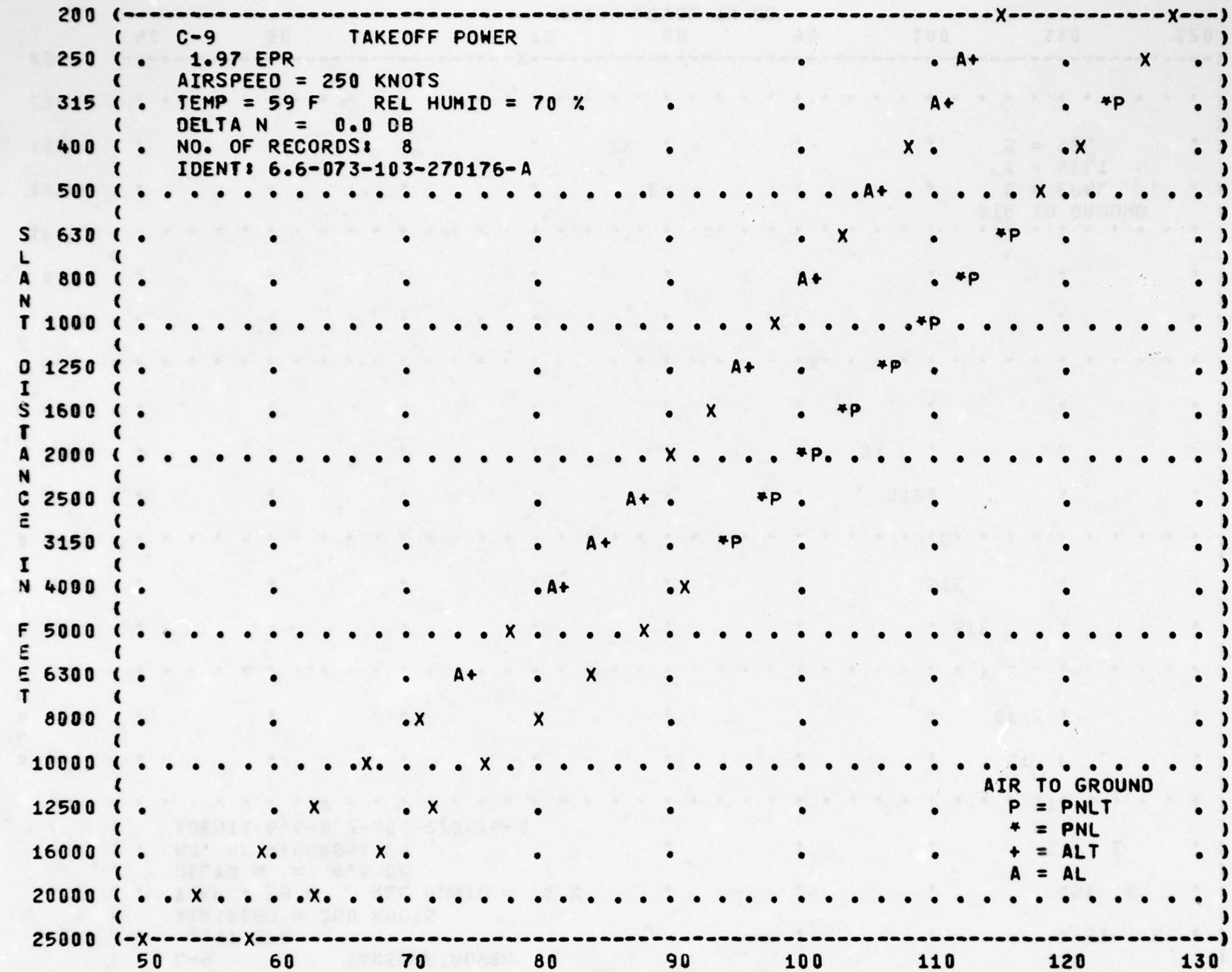
OPERATION: TAKEOFF POWER 1.97 EPR AIRSPEED = 250 KNOTS

METEOROLOGY: TEMP = 59 F REL HUMID = 70 % DELTA N = 0.0 DB

A/C CODE: 073
OPS CODE: 103
PROFILE VER: A
27 JAN 76
PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	114.8	115.3	127.9	128.4	113.4	114.3	118.0
250	112.4	112.9	125.5	126.1	112.0	112.9	116.6
315	110.0	110.5	123.1	123.6	110.7	111.5	115.2
400	107.6	108.1	120.5	121.1	109.3	110.2	113.7
500	105.2	105.8	117.9	118.4	107.9	108.8	112.0
630	102.8	103.3	115.1	115.7	106.5	107.4	110.3
800	100.4	100.9	112.3	112.9	105.0	105.9	108.4
1000	97.9	98.4	109.4	109.9	103.5	104.4	106.5
1250	95.3	95.8	106.3	106.9	102.0	102.8	104.4
1600	92.7	93.2	103.4	103.9	100.3	101.2	102.5
2000	89.9	90.5	100.4	100.9	98.6	99.5	100.5
2500	87.1	87.6	97.4	97.9	96.8	97.6	98.5
3150	84.1	84.7	94.3	94.8	94.8	95.7	96.4
4000	81.1	81.5	91.0	91.5	92.7	93.4	94.0
5000	77.9	78.2	87.6	88.0	90.5	91.1	91.4
6300	74.5	74.7	84.1	84.3	88.1	88.5	88.7
8000	70.9	71.0	80.3	80.4	85.6	85.7	85.7
10000	67.1	67.1	76.4	76.4	82.8	82.8	82.6
12500	63.1	63.1	72.2	72.2	79.8	79.8	79.4
16000	58.9	58.9	67.9	67.9	76.6	76.6	76.1
20000	54.5	54.5	63.3	63.3	73.2	73.2	72.5
25000	49.8	49.8	58.5	58.5	69.5	69.5	68.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-9 TAKEOFF POWER
1.97 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-073-103-270176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

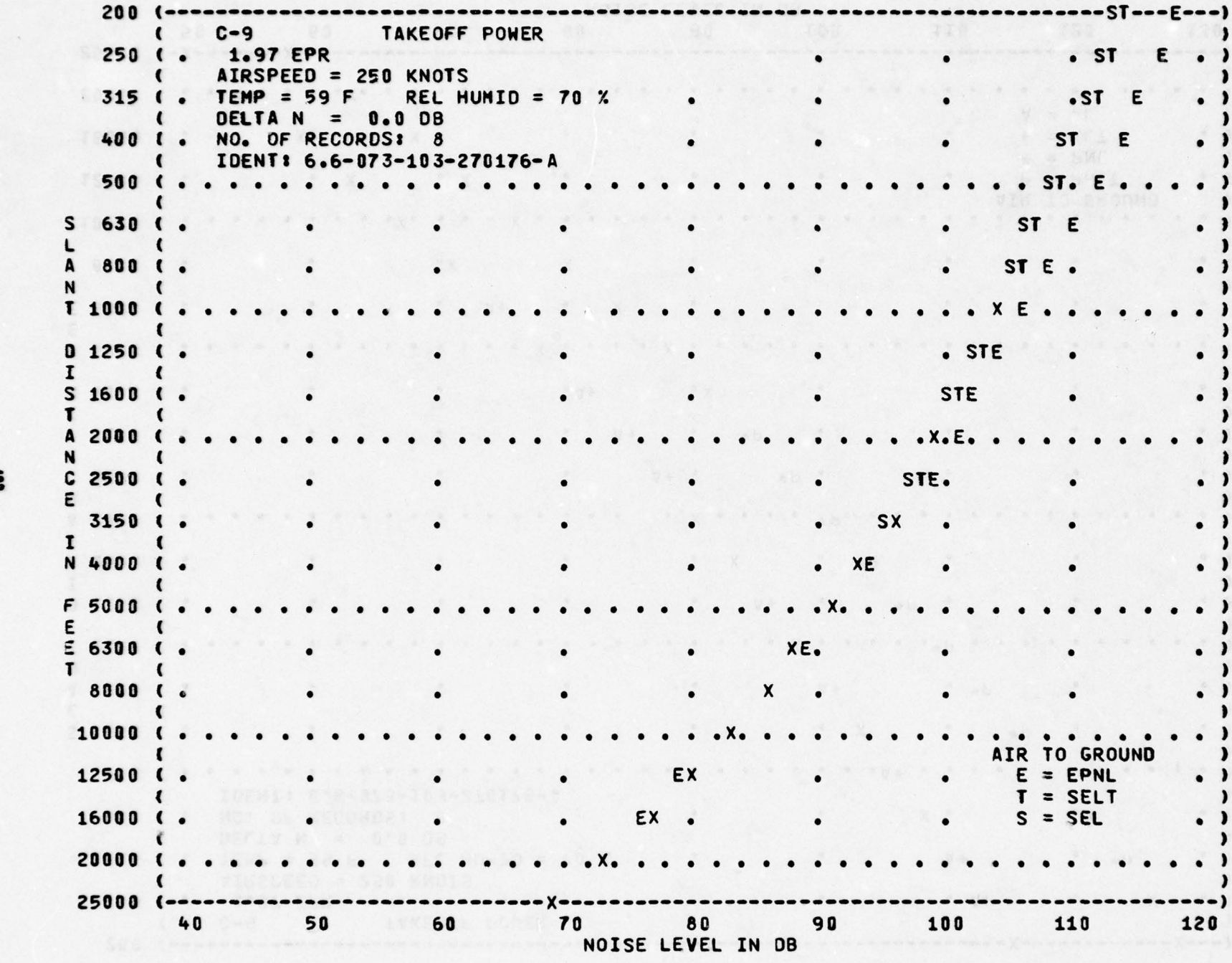

C-9 TAKEOFF POWER
1.97 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-073-103-270176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
AIR TO GROUND
E = EPNL
T = SELT
S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-9

OPERATION:
TAKEOFF POWER
1.97 EPR
AIRSPEED = 250 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 073
OPS CODE: 103
PROFILE VER: A
27 JAN 76
PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	86	85	83	91	99	102	98	99	101	101	101	101	100	99	97	98	98	97	96	96	91	91	94	103
250	84	83	81	89	97	100	96	97	99	99	98	99	98	97	95	95	95	94	94	93	88	88	91	99
315	82	81	79	87	95	98	94	95	97	97	96	97	96	95	93	93	93	92	92	91	86	85	87	95
400	80	79	77	85	93	96	92	93	95	95	94	95	94	93	91	91	91	90	89	88	83	81	83	90
500	78	77	75	83	91	93	89	91	93	93	92	92	92	91	89	89	88	87	86	85	79	78	79	84
630	76	75	73	81	88	90	87	88	91	91	90	90	90	88	86	86	86	84	83	81	76	73	74	78
800	74	73	71	78	86	88	84	85	89	89	88	88	87	86	84	84	83	82	80	78	72	69	68	70
1000	72	71	69	76	83	85	81	82	87	87	86	86	85	84	82	81	80	78	77	74	67	63	61	60
1250	70	69	66	72	80	82	78	79	84	85	83	83	83	81	79	78	77	75	73	69	62	57	52	49
1600	68	66	63	69	76	78	74	75	80	82	81	81	80	78	76	75	74	71	68	64	56	49	42	35
2000	64	62	59	65	72	74	70	72	77	80	79	79	77	76	73	72	70	67	63	58	49	40	30	18
2500	61	58	55	61	68	70	66	67	73	76	76	76	75	73	70	68	66	62	58	50	41	29	15	
3150	57	54	50	56	63	65	61	62	68	72	73	73	72	69	66	64	62	57	51	42	31	16		
4000	52	49	45	50	57	59	55	56	63	67	69	69	68	66	62	60	56	50	43	31	20	1		
5000	47	44	40	46	53	54	50	51	57	61	64	65	64	62	58	54	50	43	34	19	5			
6300	42	39	35	41	48	49	45	46	51	56	60	60	60	57	52	48	43	34	22	4				
8000	40	37	33	38	45	47	42	43	48	52	56	56	55	52	46	41	34	23	8					
10000	38	35	31	36	43	44	40	40	44	49	52	52	50	46	39	32	24	10						
12500	36	32	28	34	40	41	37	37	41	45	47	47	44	39	31	22	11							
16000	33	30	26	31	37	38	33	33	37	40	42	41	37	31	21	10								
20000	31	28	23	28	34	35	30	29	33	35	36	34	28	20	9									
25000	28	25	20	25	31	32	26	25	27	29	29	25	18	8										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-9

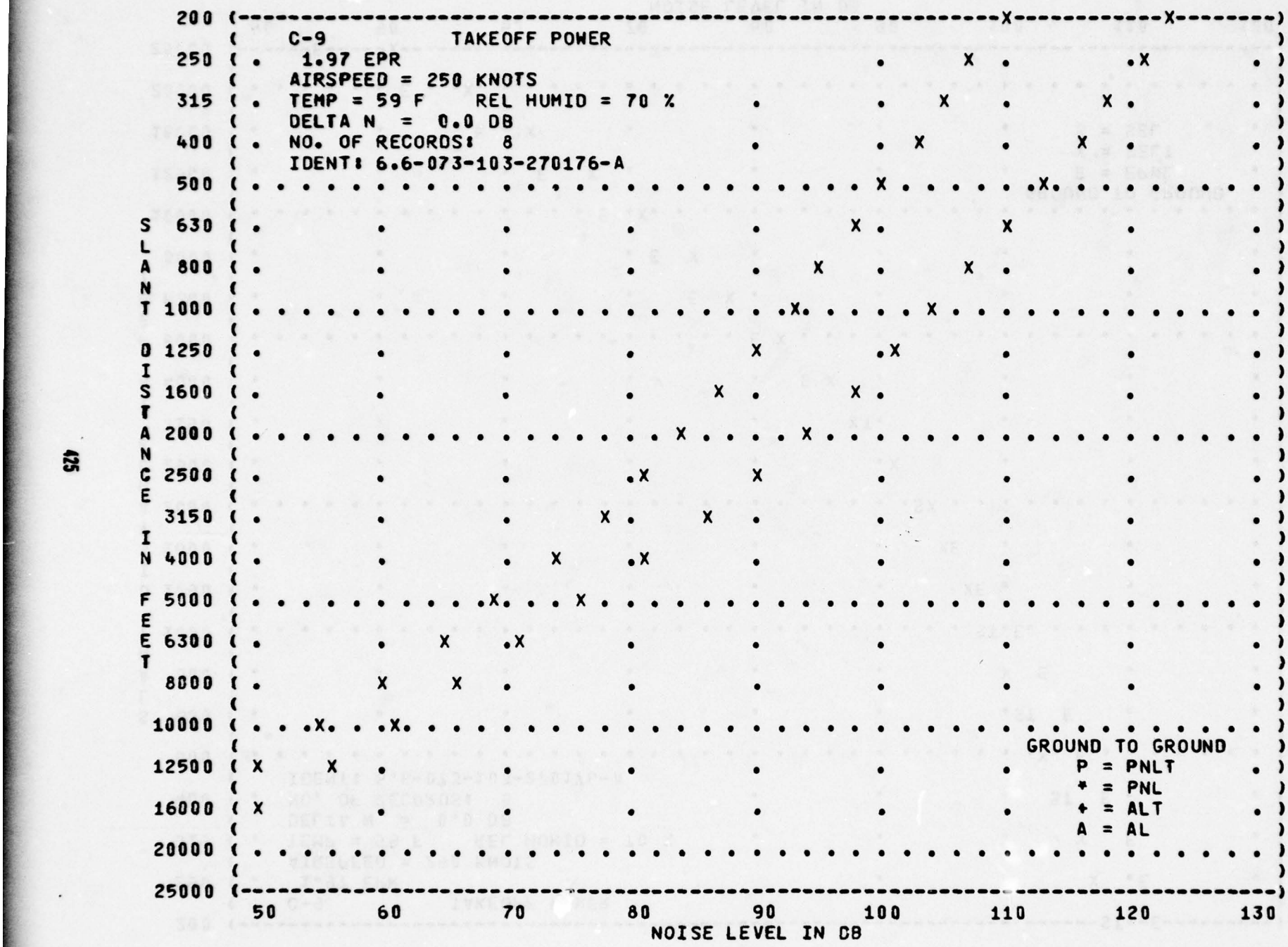
OPERATION:
TAKEOFF POWER
1.97 EPR
AIRSPEED = 250 KNOTS

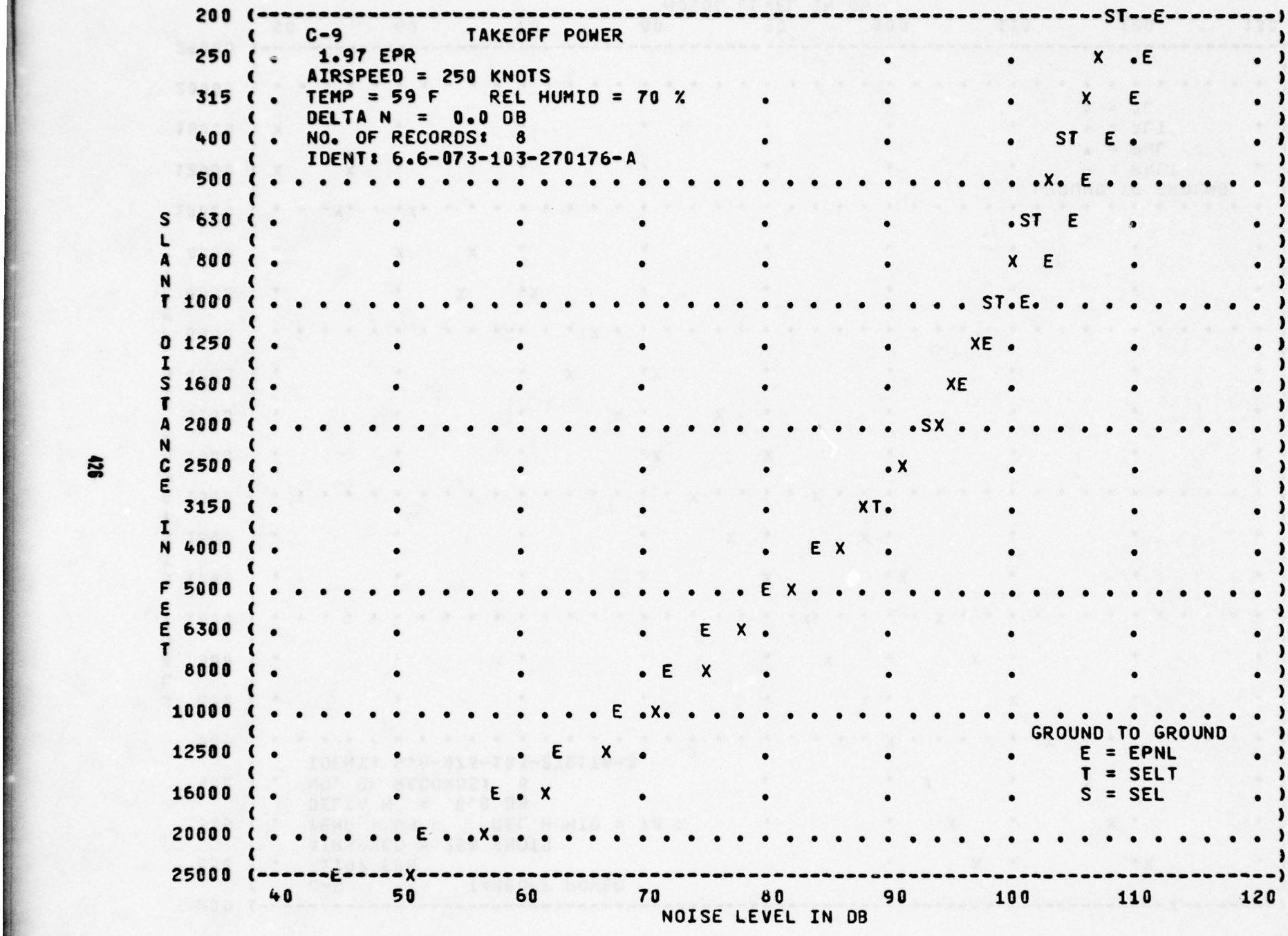
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 073
OPS CODE: 103
PROFILE VER: A
27 JAN 76
PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	109.8	109.8	122.9	122.9	108.4	108.8	112.5
250	107.4	107.4	120.5	120.5	107.0	107.4	111.1
315	105.0	105.0	118.1	118.1	105.7	106.0	109.6
400	102.6	102.6	115.5	115.5	104.3	104.6	108.1
500	100.2	100.2	112.8	112.8	102.9	103.2	106.4
630	97.8	97.8	110.0	110.0	101.4	101.8	104.6
800	95.3	95.3	107.1	107.1	100.0	100.3	102.7
1000	92.8	92.8	104.0	104.0	98.4	98.8	100.6
1250	90.1	90.1	100.8	100.8	96.8	97.1	98.3
1600	87.4	87.4	97.5	97.5	95.0	95.4	96.1
2000	84.5	84.5	94.2	94.2	93.2	93.5	93.8
2500	81.3	81.3	90.1	90.1	91.0	91.3	90.7
3150	77.8	77.8	86.1	86.1	88.5	88.8	87.7
4000	73.9	73.9	81.5	81.5	85.6	85.9	84.0
5000	69.5	69.5	76.4	76.4	82.1	82.3	79.8
6300	64.6	64.6	71.0	71.0	78.3	78.4	75.3
8000	60.2	60.2	66.4	66.4	74.9	74.9	71.7
10000	55.4	55.4	61.4	61.4	71.0	71.0	67.6
12500	50.1	50.1	56.0	56.0	66.7	66.7	63.2
16000	44.2	44.2	50.1	50.1	61.9	61.9	58.3
20000	37.9	37.9	43.0	43.0	56.5	56.5	52.2
25000	31.0	31.0	34.6	34.6	50.7	50.7	44.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-9 TAKEOFF POWER
1.97 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-073-103-270176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB


C-9 TAKEOFF POWER
1.97 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-073-103-270176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



C-9 APPROACH POWER 1.35 EPR

AIRSPEED = 160 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 12

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-073-105-270176

PNLT = 103.0 PNDB
PNL = 101.3 PNDB
ALT = 88.5 DBA
AL = 86.9 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-9

OPERATION:
APPROACH POWER
1.35 EPR
AIRSPEED = 160 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 073
OPS CODE: 105
PROFILE VER: A
27 JAN 76
PAGE H2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	77	78	79	86	91	91	86	92	92	93	91	90	89	89	89	89	91	98	94	97	91	89	89	93
250	75	76	77	84	89	89	84	90	90	91	88	88	87	86	87	87	89	95	92	95	89	86	86	89
315	73	73	75	82	87	87	82	88	88	89	86	86	85	84	85	85	87	93	90	92	86	83	83	86
400	71	71	72	80	85	85	80	86	86	87	84	84	83	82	83	83	85	91	87	90	83	80	79	81
500	69	69	70	78	83	83	78	84	84	85	82	82	80	80	81	80	82	88	85	87	80	77	75	76
630	67	67	68	76	81	81	76	82	82	83	80	79	78	78	78	78	80	86	82	84	77	73	71	71
800	65	65	66	74	79	79	74	80	80	81	78	77	76	76	76	76	77	83	79	80	74	69	65	64
1000	63	63	64	72	77	77	72	78	78	79	76	75	74	73	74	73	75	80<	76	77	70	64	59	56
1250	60	61	62	70	75	75	70	76	75	76	74	73	71	71	71	71	72	77	72	73	65	58	52	47
1600	58	59	60	68	73	73	68	74	73	74	71	71	69	68	69	68	69	74	69	68	60	52	44	36
2000	56	57	58	66	71	71	66	71	71	72	69	68	67	66	66	65	65	70	64	63	54	45	34	22
2500	54	55	56	64	68	69	64	69	69	70	67	66	64	63	63	61	62	66	59	57	47	36	22	5
3150	52	53	54	62	66	67	61	67	66	67	64	63	61	60	60	58	58	61	54	50	39	25	7	
4000	50	51	52	60	64	64	59	65	64	65	62	60	58	57	56	54	53	56	47	41	30	12		
5000	48	49	50	57	62	62	57	62	62	62	59	57	55	53	52	49	48	49	39	31	18			
6300	46	47	48	55	60	60	54	60	59	59	56	54	51	49	47	44	42	42	30	18	4			
8000	44	45	46	53	57	58	52	57	56	56	53	50	47	45	42	38	34	33	18	3				
10000	42	43	43	51	55	55	49	54	53	53	49	46	43	39	36	31	26	22	5					
12500	40	40	41	48	53	52	46	51	50	49	45	42	38	33	29	22	16	9						
16000	37	38	39	46	50	50	44	48	47	46	41	37	32	26	21	12	3							
20000	35	36	36	43	47	47	40	45	43	41	35	31	25	18	11									
25000	33	33	34	41	44	43	37	41	38	36	29	24	16	8										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-9

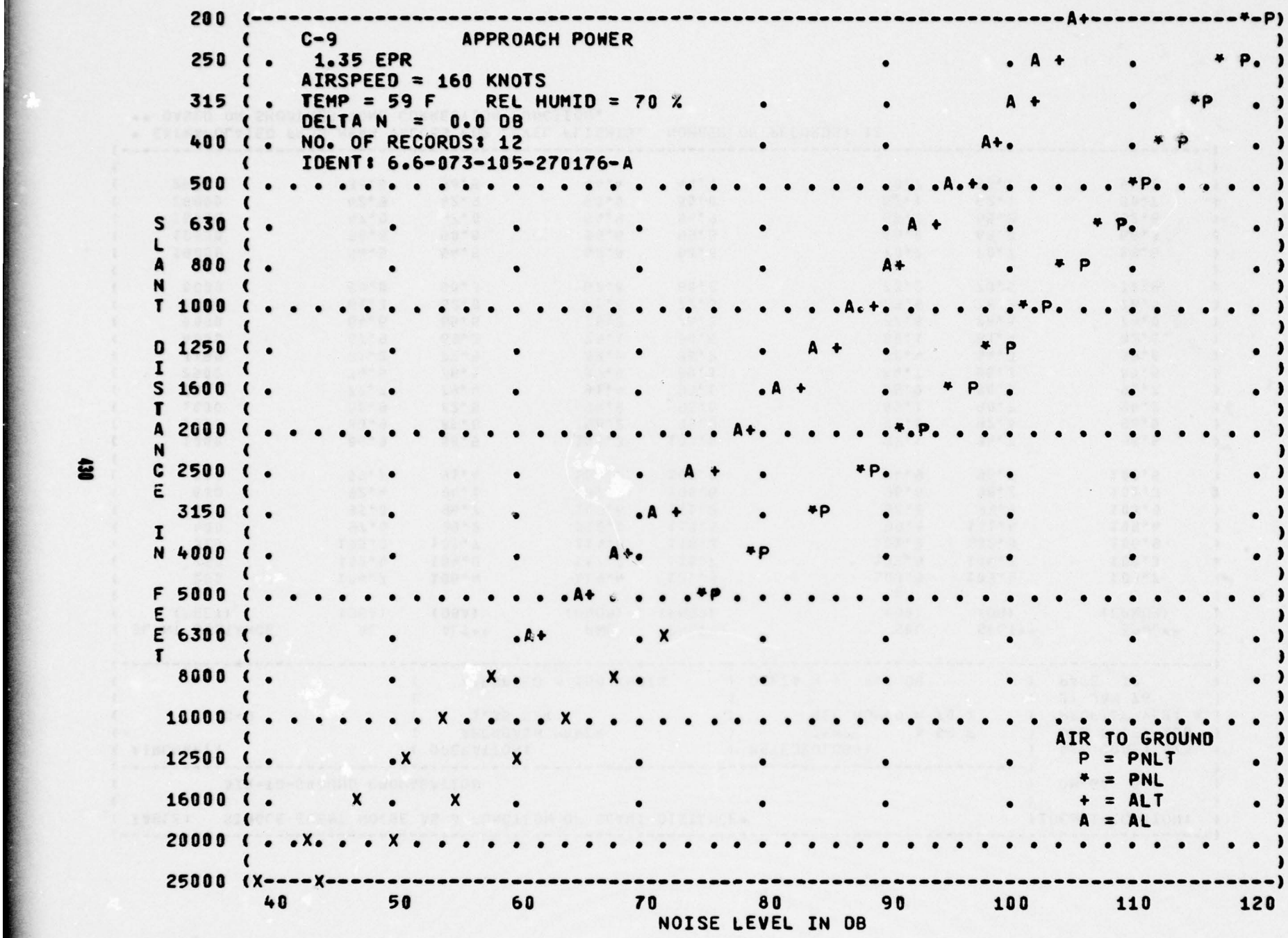
OPERATION:
APPROACH POWER
1.35 EPR
AIRSPEED = 160 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 073
OPS CODE: 105
PROFILE VER: A
27 JAN 76
PAGE I2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	104.7	106.4	119.4	121.0	103.9	105.5	109.7
250	102.4	104.0	117.0	118.7	102.6	104.2	108.3
315	100.0	101.7	114.6	116.3	101.2	102.8	106.9
400	97.6	99.2	112.1	113.8	99.8	101.4	105.4
500	95.0	96.7	109.6	111.2	98.2	99.9	103.9
630	92.4	94.1	107.0	108.6	96.6	98.2	102.3
800	89.7	91.4	104.2	105.9	94.9	96.5	100.5
1000	86.9	88.5	101.3	103.0	93.1	94.7	98.6
1250	83.9	85.6	98.2	99.9	91.1	92.8	96.5
1600	80.9	82.5	94.9	96.6	89.1	90.7	94.2
2000	77.7	79.4	91.4	93.1	86.9	88.5	91.7
2500	74.5	76.1	87.6	89.3	84.7	86.3	88.9
3150	71.2	72.9	83.5	85.2	82.4	84.0	85.8
4000	67.9	69.3	79.1	80.5	80.1	81.4	82.1
5000	64.6	65.6	75.3	76.3	77.8	78.8	79.0
6300	61.3	62.0	71.6	72.3	75.5	76.2	76.0
8000	58.0	58.3	67.8	68.2	73.2	73.5	72.9
10000	54.5	54.5	63.8	63.8	70.7	70.7	69.5
12500	50.8	50.8	59.6	59.6	68.0	68.0	66.3
16000	47.0	47.0	54.9	54.9	65.2	65.2	62.6
20000	42.9	42.9	50.0	50.0	62.1	62.1	58.7
25000	38.5	38.5	44.4	44.4	58.7	58.7	54.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-9 APPROACH POWER
1.35 EPR
AIRSPEED = 160 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 6.6-073-105-270176-A
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

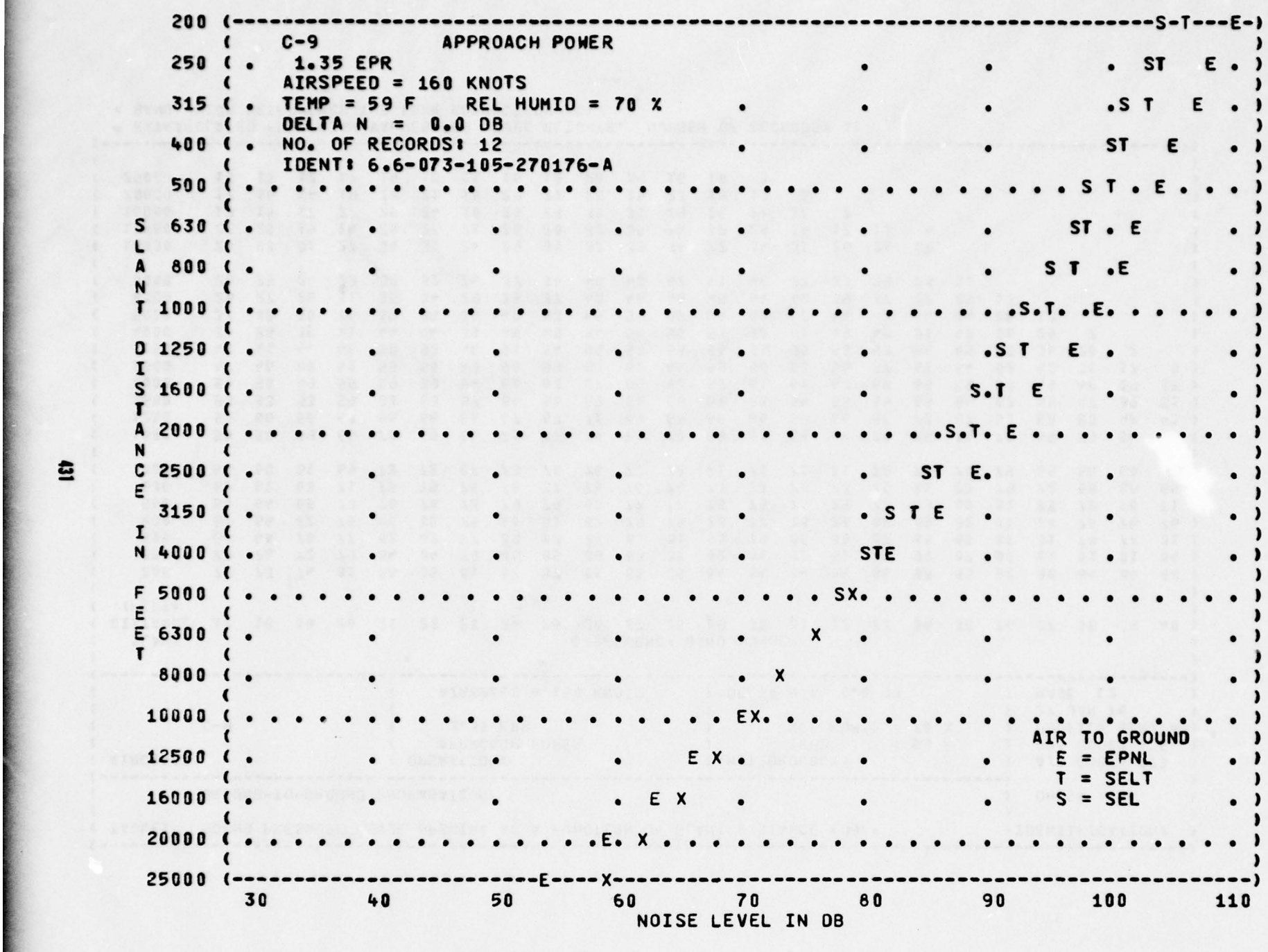

C-9 APPROACH POWER
1.35 EPR
AIRSPEED = 160 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 6.6-073-105-270176-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-9

OPERATION:
APPROACH POWER
1.35 EPR
AIRSPEED = 160 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 073
OPS CODE: 105
PROFILE VER: A
27 JAN 76
PAGE L2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	72	73	74	81	86	86	81	87	87	88	86	85	84	84	84	84	86	93	89	92	86	84	84	88
250	70	71	72	79	84	84	79	85	85	86	83	83	82	81	82	82	84	90	87	90	84	81	81	84
315	68	68	70	77	82	82	77	83	83	84	81	81	80	79	80	80	82	88	85	87	81	78	78	81
400	66	66	67	75	80	80	75	81	81	82	79	79	78	77	78	78	80	86	82	85	78	75	74	76
500	64	64	65	73	78	78	73	79	79	80	77	77	75	75	76	75	77	83	80	82	75	72	70	71
630	62	62	63	71	75	75	70	76	77	78	75	74	73	73	73	73	75	81	77	79	72	68	66	66
800	60	60	61	69	72	72	67	73	75	76	73	72	71	71	71	71	72	78	74	75	69	64	60	59
1000	58	58	59	66	70	69	64	71	72	74	71	70	69	68	69	68	70	75<	71	72	65	59	54	51
1250	55	56	56	63	66	66	61	67	69	71	69	68	66	66	66	66	67	72	67	68	60	53	47	42
1600	53	53	53	59	63	63	58	64	66	69	66	66	64	63	64	63	64	69	64	63	55	47	39	31
2000	50	50	49	55	59	59	54	60	63	67	64	63	62	61	61	60	60	65	59	58	49	40	29	17
2500	47	46	45	51	55	55	49	56	59	63	62	61	59	58	58	56	57	61	54	52	42	31	17	0
3150	43	41	41	46	50	50	44	51	54	59	58	58	56	55	55	53	53	56	49	45	34	20	2	
4000	38	36	35	41	44	44	39	45	49	54	54	55	53	52	51	49	48	51	42	36	25	7		
5000	33	32	30	36	39	39	34	40	43	49	50	50	49	48	47	44	43	44	34	26	13			
6300	28	27	26	31	35	34	29	35	37	43	46	46	45	44	42	39	37	37	25	13				
8000	26	25	24	29	32	32	26	32	34	40	43	42	41	40	37	33	29	28	13					
10000	24	23	21	27	30	30	24	29	31	37	39	38	37	34	31	26	21	17						
12500	22	20	19	24	28	27	21	26	28	33	35	34	32	28	24	17	11	4						
16000	19	18	17	22	25	24	18	23	25	30	31	29	26	21	16	7								
20000	17	16	14	19	22	21	15	20	21	25	25	23	19	13	6									
25000	15	13	12	17	19	18	11	16	16	20	19	16	10	3										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-9

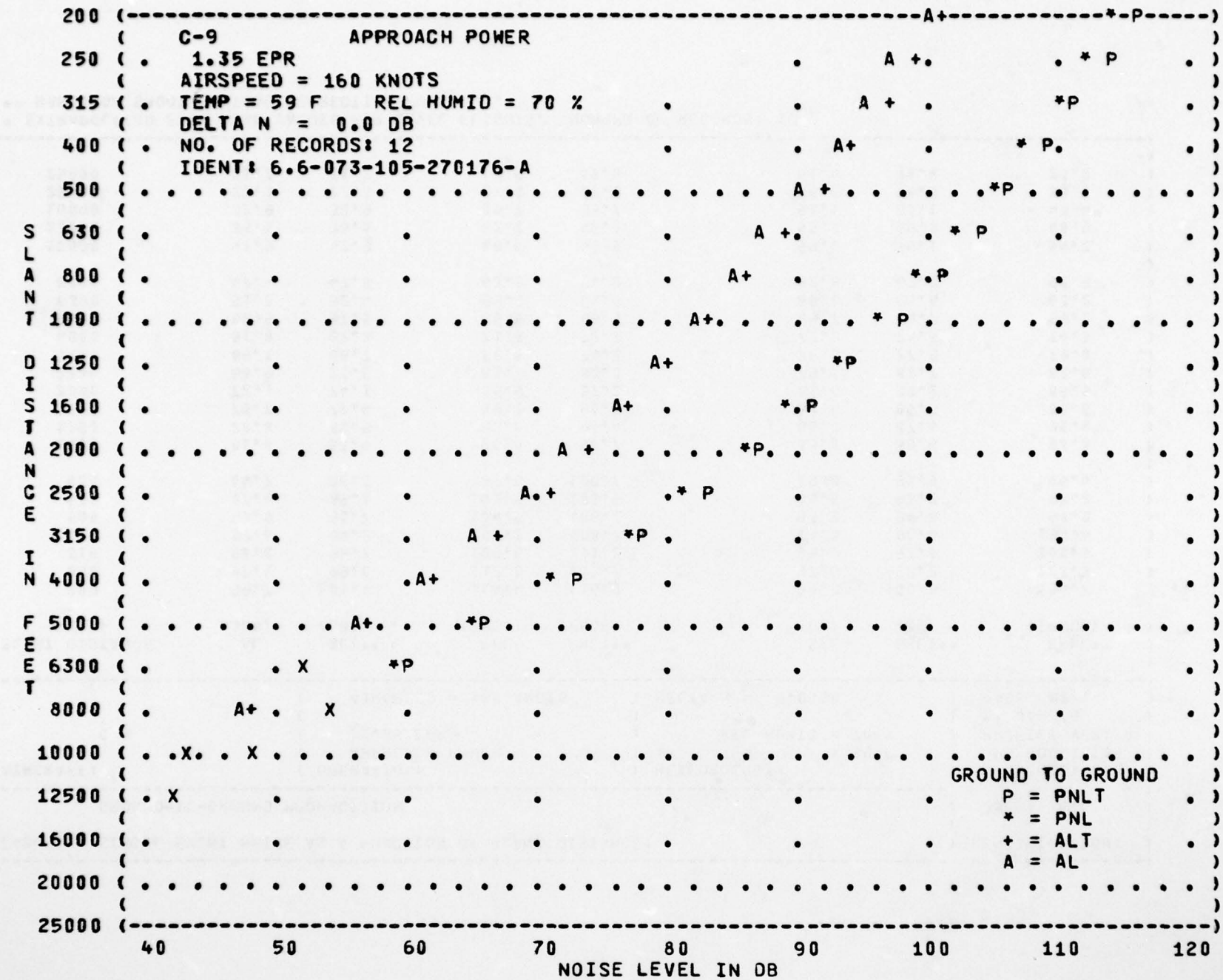
OPERATION:
APPROACH POWER
1.35 EPR
AIRSPEED = 160 KNOTS

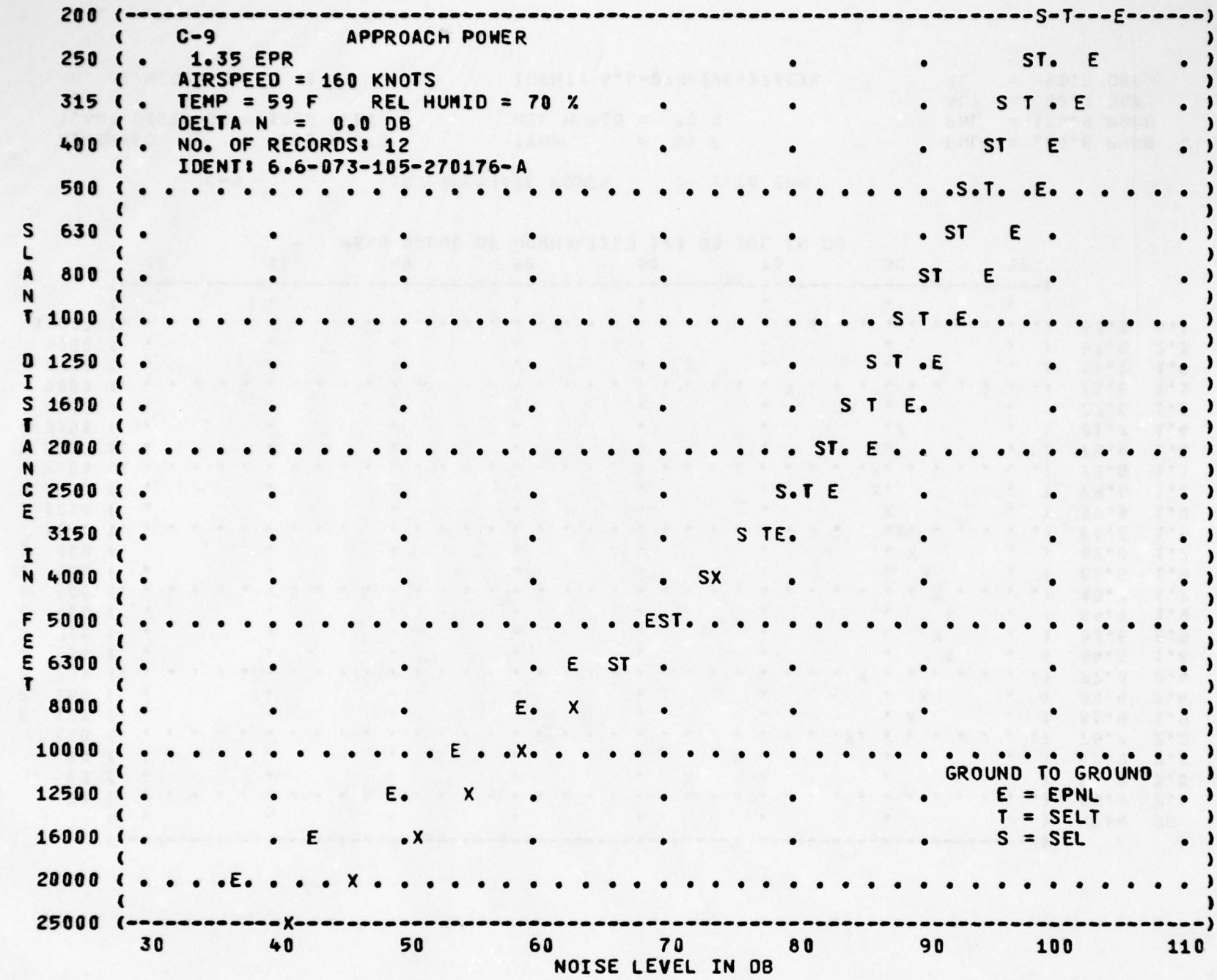
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

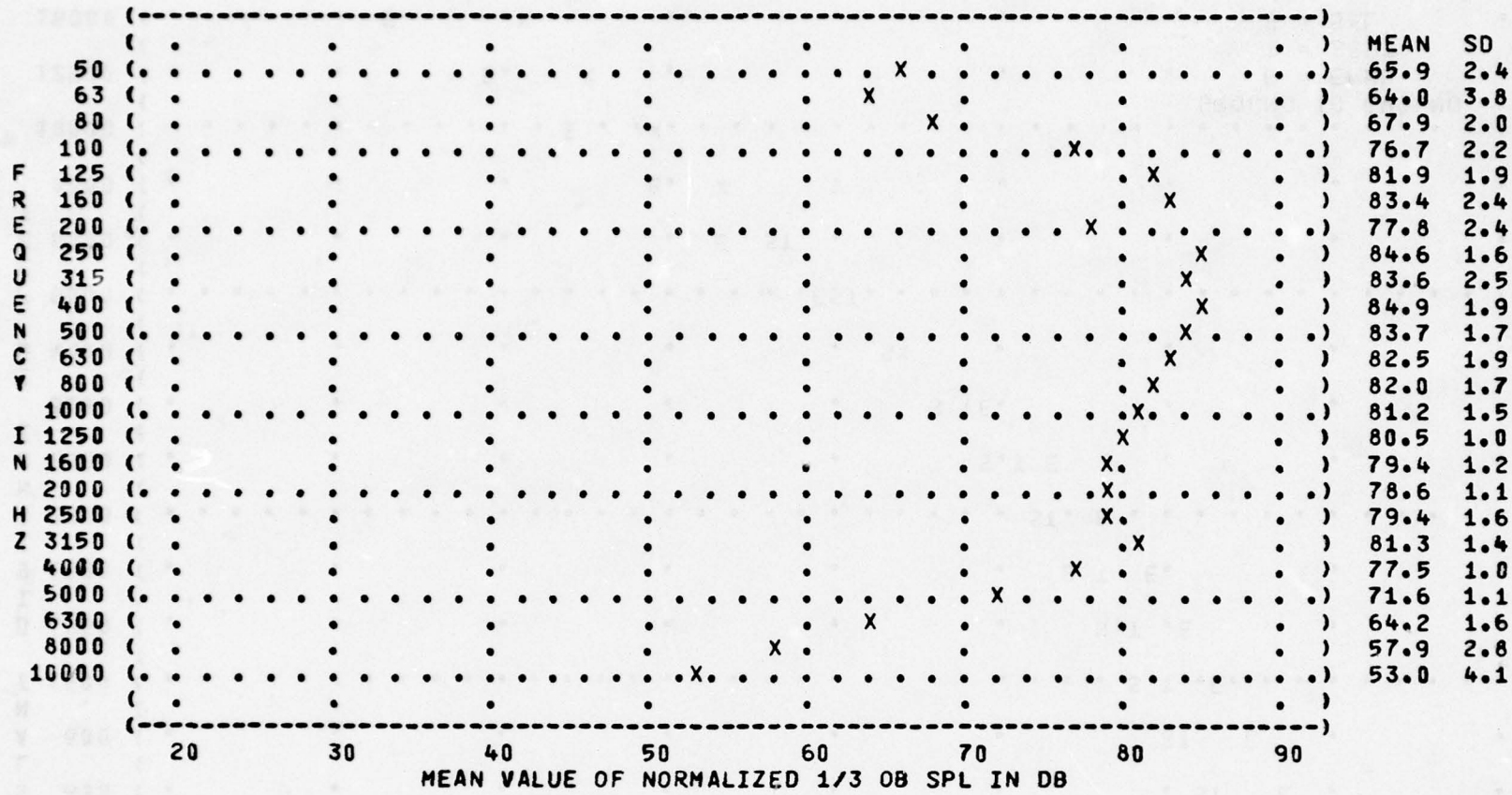
A/C CODE: 073
OPS CODE: 105
PROFILE VER: A
27 JAN 76
PAGE M2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	99.7	101.4	114.4	116.0	98.9	100.5	104.7
250	97.4	99.0	112.0	113.7	97.6	99.2	103.3
315	95.0	96.7	109.6	111.2	96.2	97.8	101.9
400	92.6	94.2	107.1	108.7	94.8	96.4	100.4
500	90.0	91.7	104.5	106.2	93.2	94.8	98.9
630	87.4	89.1	101.9	103.5	91.6	93.2	97.2
800	84.7	86.3	99.0	100.7	89.9	91.5	95.4
1000	81.8	83.5	96.0	97.7	88.0	89.6	93.3
1250	78.8	80.5	92.8	94.4	86.0	87.6	91.1
1600	75.7	77.4	89.3	90.9	83.9	85.5	88.6
2000	72.4	74.1	85.5	87.2	81.6	83.2	85.8
2500	68.9	70.5	81.3	83.0	79.1	80.7	82.6
3150	65.1	66.7	76.6	78.3	76.3	77.9	79.0
4000	61.0	62.3	71.3	72.7	73.2	74.5	74.3
5000	56.5	57.5	65.5	66.5	69.7	70.7	69.2
6300	51.8	52.4	58.9	59.5	66.0	66.6	63.2
8000	47.4	47.8	53.9	54.2	62.6	63.0	58.9
10000	42.9	42.9	48.5	48.5	59.1	59.1	54.2
12500	38.1	38.1	42.2	42.2	55.3	55.3	48.9
16000	32.9	32.9	35.7	35.7	51.1	51.1	43.4
20000	27.3	27.3	27.8	27.8	46.5	46.5	36.5
25000	21.2	21.2	15.5	15.5	41.4	41.4	25.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-9 APPROACH POWER
1.35 EPR
AIRSPEED = 160 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 6.6-073-105-270176-A
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB


C-9 APPROACH POWER
1.35 EPR
AIRSPEED = 160 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 6.6-073-105-270176-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB



C-9 INTERMEDIATE POWER 1.70 EPR

AIRSPEED = 300 KNOTS	TEMP = 59 F	PNLT = 105.6 PNDB
SLANT DISTANCE = 1000 FEET	REL HUMID = 70 %	PNL = 104.9 PNDB
		ALT = 92.2 DBA
NO. OF RECORDS = 8	IDENT: 6.6-073-106-270176	AL = 91.5 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-9

OPERATION:
INTERMEDIATE POWER
1.70 EPR
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 073
OPS CODE: 106
PROFILE VER: A
27 JAN 76
PAGE H3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	80	78	82	91	96	98	92	99	98	99	98	97	97	96	96	95	95	97	100	98	93	89	88	90
250	78	76	80	89	94	96	90	97	96	97	96	95	95	94	94	93	93	95	98	96	91	86	85	87
315	76	74	78	87	92	94	88	95	94	95	94	93	93	92	92	91	91	92	95	93	88	84	82	83
400	74	72	76	85	90	92	86	93	92	93	92	91	91	90	90	89	89	90	93	90	85	80	78	79
500	72	70	74	83	88	89	84	91	90	91	90	89	89	88	87	87	86	88	90	88	82	77	74	74
630	70	68	72	81	86	87	82	89	88	89	88	87	86	86	85	84	84	85	87	85	79	73	69	68
800	68	66	70	79	84	85	80	87	86	87	86	85	84	84	83	82	81	82	84	81	76	69	64	61
1000	66	64	68	77	82	83	78	85<	84	85	84	83	82	81	80	79	79	79	81	77	72	64	58	53
1250	64	62	66	75	80	81	76	82	81	83	82	80	80	79	78	77	76	76	78	73	67	59	51	43
1600	62	60	64	73	78	79	74	80	79	81	79	78	77	76	75	74	73	73	74	69	62	52	42	32
2000	60	58	62	71	76	77	72	78	77	78	77	76	75	74	72	71	69	69	69	63	56	44	32	18
2500	58	56	60	68	74	75	69	76	75	76	75	73	72	71	69	67	66	65	64	57	49	35	20	1
3150	56	54	58	66	72	73	67	74	73	74	72	70	69	68	66	64	62	60	59	50	41	24	5	
4000	54	52	56	64	69	71	65	71	70	71	69	68	66	64	63	60	57	54	52	41	31	11		
5000	52	50	53	62	67	68	63	69	68	68	67	65	63	61	58	55	51	48	44	30	19			
6300	50	47	51	60	65	66	60	67	65	66	64	61	59	57	54	50	45	40	34	18	4			
8000	47	45	49	58	63	64	58	64	62	63	60	58	55	52	49	43	38	31	22	2				
10000	45	43	47	55	60	61	55	61	59	59	57	54	51	47	42	36	29	20	8					
12500	43	41	45	53	58	58	52	58	56	56	53	49	45	41	35	27	18	7						
16000	41	39	42	50	55	56	49	55	52	52	48	44	39	34	27	17	6							
20000	38	36	40	48	52	53	46	51	48	47	43	38	32	25	17	4								
25000	36	34	37	45	49	49	42	47	44	42	37	31	23	15	4									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-9

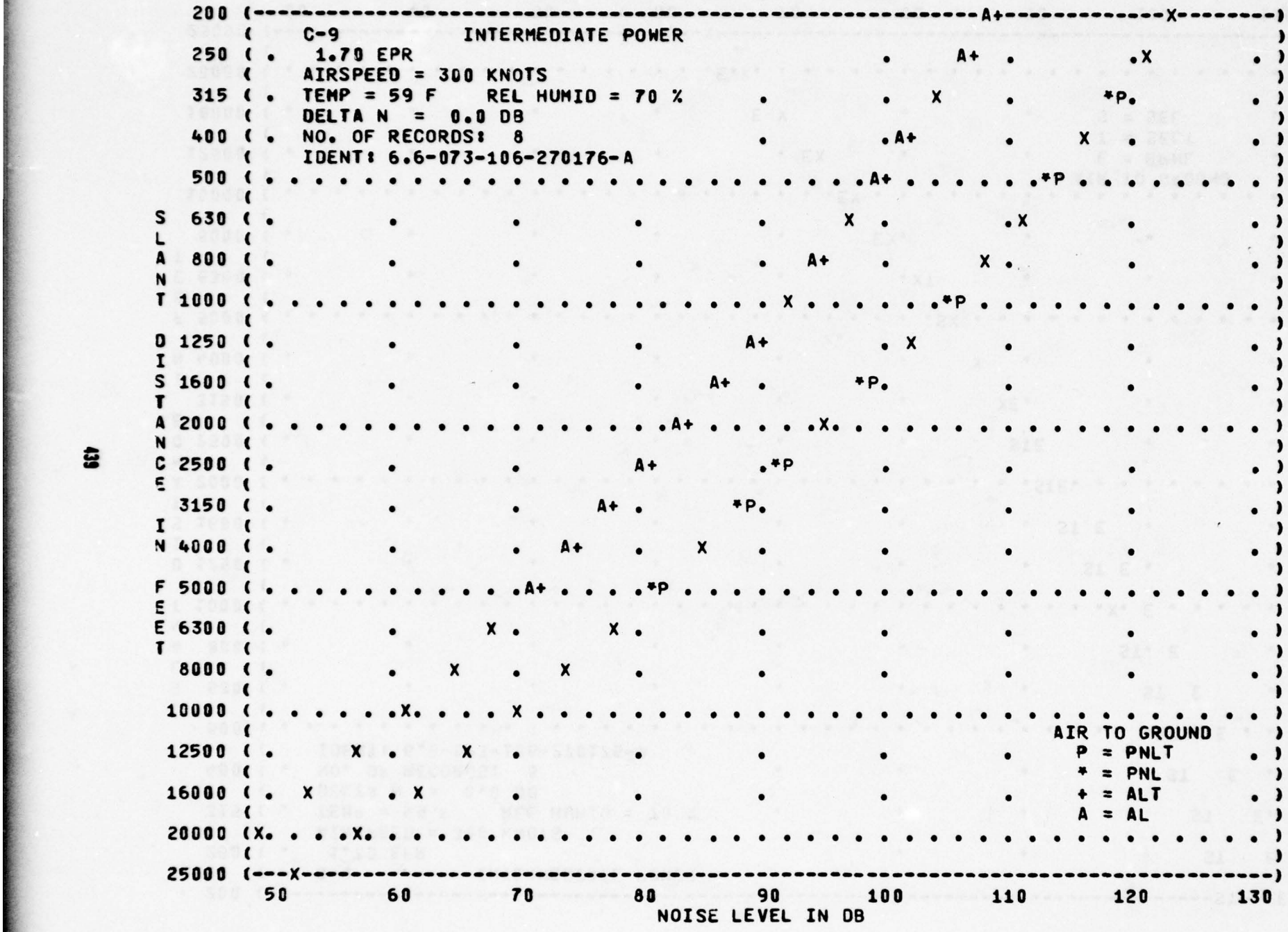
OPERATION:
INTERMEDIATE POWER
1.70 EPR
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 073
OPS CODE: 106
PROFILE VER: A
27 JAN 76
PAGE I3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	108.2	108.9	122.8	123.5	106.3	107.2	111.3
250	106.0	106.7	120.6	121.2	105.1	106.0	110.1
315	103.8	104.4	118.2	118.9	103.8	104.7	108.7
400	101.4	102.1	115.8	116.4	102.5	103.4	107.3
500	99.1	99.7	113.3	113.9	101.1	102.0	105.8
630	96.6	97.3	110.6	111.3	99.7	100.6	104.1
800	94.1	94.8	107.8	108.5	98.2	99.1	102.3
1000	91.5	92.2	104.9	105.6	96.6	97.5	100.4
1250	88.9	89.5	101.8	102.4	94.9	95.8	98.3
1600	86.1	86.8	98.4	99.1	93.2	94.1	95.9
2000	83.3	84.0	94.8	95.5	91.3	92.3	93.3
2500	80.4	81.1	91.2	91.9	89.5	90.4	90.7
3150	77.5	78.1	88.1	88.7	87.5	88.4	88.6
4000	74.5	75.0	84.8	85.3	85.5	86.2	86.1
5000	71.3	71.7	81.4	81.8	83.4	83.9	83.5
6300	68.1	68.4	77.8	78.1	81.1	81.5	80.8
8000	64.7	64.8	74.1	74.3	78.7	78.9	77.9
10000	61.1	61.1	70.3	70.3	76.2	76.2	74.9
12500	57.4	57.4	66.1	66.1	73.4	73.4	71.7
16000	53.4	53.4	61.7	61.7	70.4	70.4	68.2
20000	49.1	49.1	57.1	57.1	67.1	67.1	64.7
25000	44.6	44.6	52.0	52.0	63.6	63.6	60.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-9 INTERMEDIATE POWER
1.70 EPR
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-073-106-270176-A
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

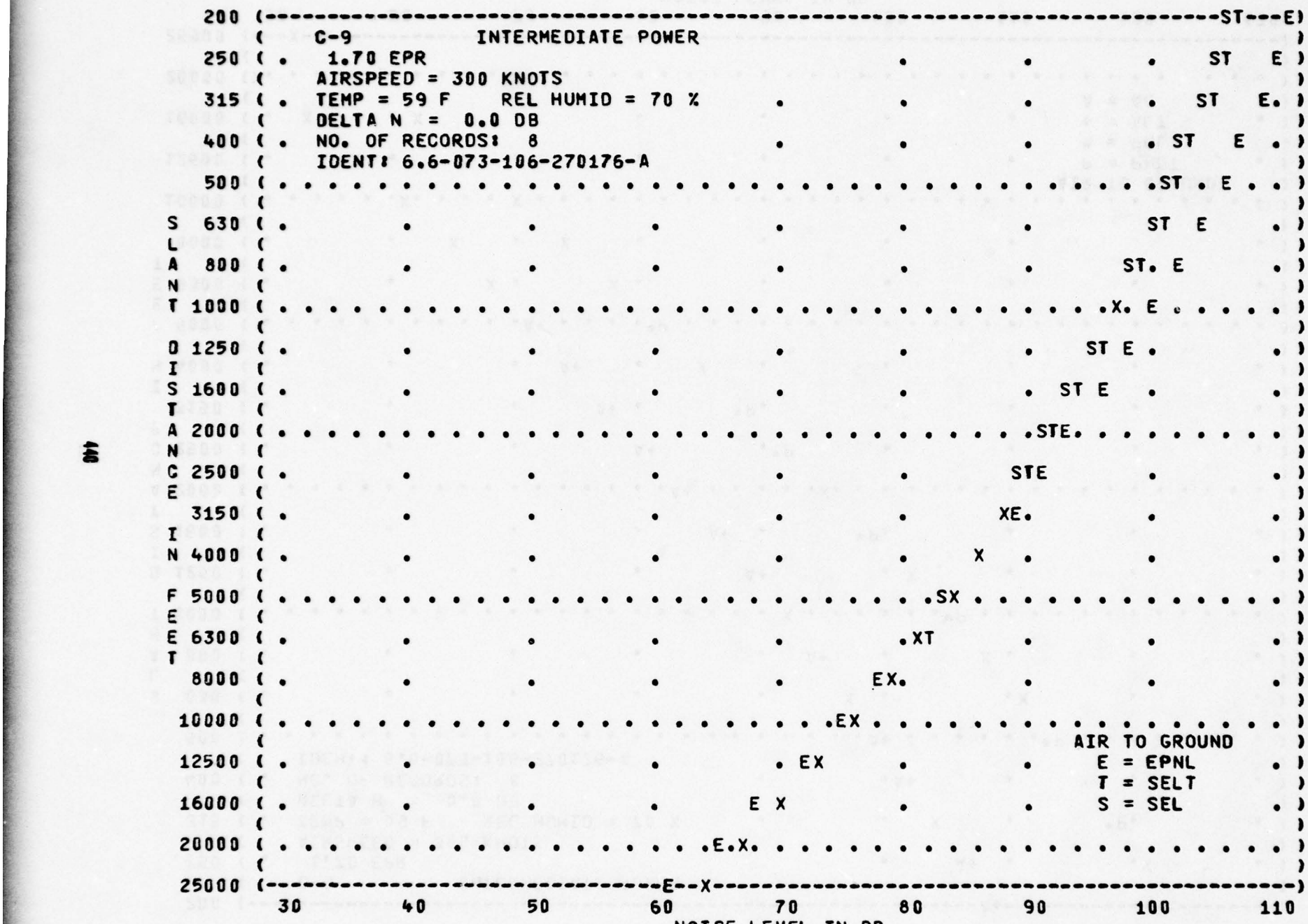

C-9 INTERMEDIATE POWER
1.70 EPR
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-073-106-270176-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: C-9

OPERATION: INTERMEDIATE POWER, 1.70 EPR, AIRSPEED = 300 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 073
OPS CODE: 106
PROFILE VER: A
27 JAN 76
PAGE L3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	75	73	77	86	91	93	87	94	93	94	93	92	92	91	91	90	90	92	95	93	88	84	83	85
250	73	71	75	84	89	91	85	92	91	92	91	90	90	89	89	88	88	90	93	91	86	81	80	82
315	71	69	73	82	87	89	83	90	89	90	89	88	88	87	87	86	86	87	90	88	83	79	77	78
400	69	67	71	80	85	86	81	88	87	88	87	86	86	85	85	84	84	85	88	85	80	75	73	74
500	67	65	69	78	83	84	78	86	85	86	85	84	84	83	82	82	81	83	85	83	77	72	69	69
630	65	63	67	76	80	81	76	83	83	84	83	82	81	81	80	79	79	80	82	80	74	68	64	63
800	63	61	65	73	78	79	73	80	81	82	81	80	79	79	78	77	76	77	79	76	71	64	59	56
1000	61	59	63	70	75	76<	70	77	78	80	79	78	77	76	75	74	74	74	76	72	67	59	53	48
1250	59	57	60	67	72	72	67	74	75	78	77	75	75	74	73	72	71	71	73	68	62	54	46	38
1600	57	54	56	64	68	69	63	71	72	76	74	73	72	71	70	69	68	68	69	64	57	47	37	27
2000	54	50	53	60	64	65	60	67	69	73	72	71	70	69	67	66	64	64	64	58	51	39	27	13
2500	50	46	49	56	60	61	55	62	65	70	69	68	67	66	64	62	61	60	59	52	44	30	15	
3150	46	42	44	51	55	56	50	57	60	65	66	65	64	63	61	59	57	55	54	45	36	19		
4000	42	37	39	45	49	50	44	52	55	61	62	62	61	59	58	55	52	49	47	36	26	6		
5000	37	32	34	41	45	45	40	46	49	55	58	58	58	56	53	50	46	43	39	25	14			
6300	32	27	29	36	40	41	35	42	43	50	54	53	53	52	49	45	40	35	29	13				
8000	29	25	27	34	38	38	32	39	40	47	50	50	49	47	44	38	33	26	17					
10000	27	23	25	31	35	36	30	36	37	43	47	46	45	42	37	31	24	15	3					
12500	25	21	23	29	33	33	27	33	34	40	43	41	39	36	30	22	13	2						
16000	23	19	20	26	30	30	24	30	30	36	38	36	33	29	22	12	1							
20000	20	16	18	24	27	27	20	26	26	31	33	30	26	20	12									
25000	18	14	15	21	24	24	17	22	22	26	27	23	17	10										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-9

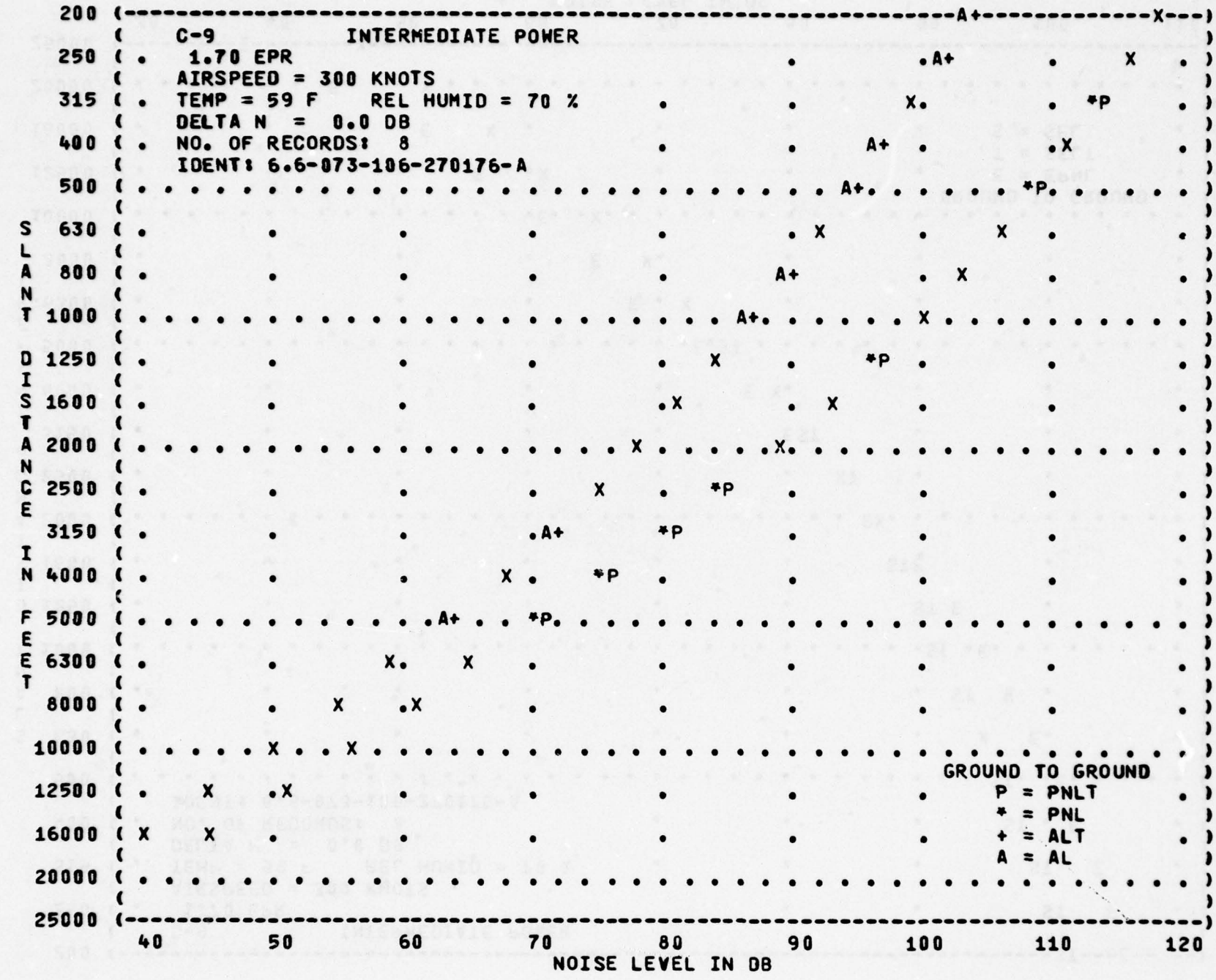
OPERATION:
INTERMEDIATE POWER
1.70 EPR
AIRSPEED = 300 KNOTS

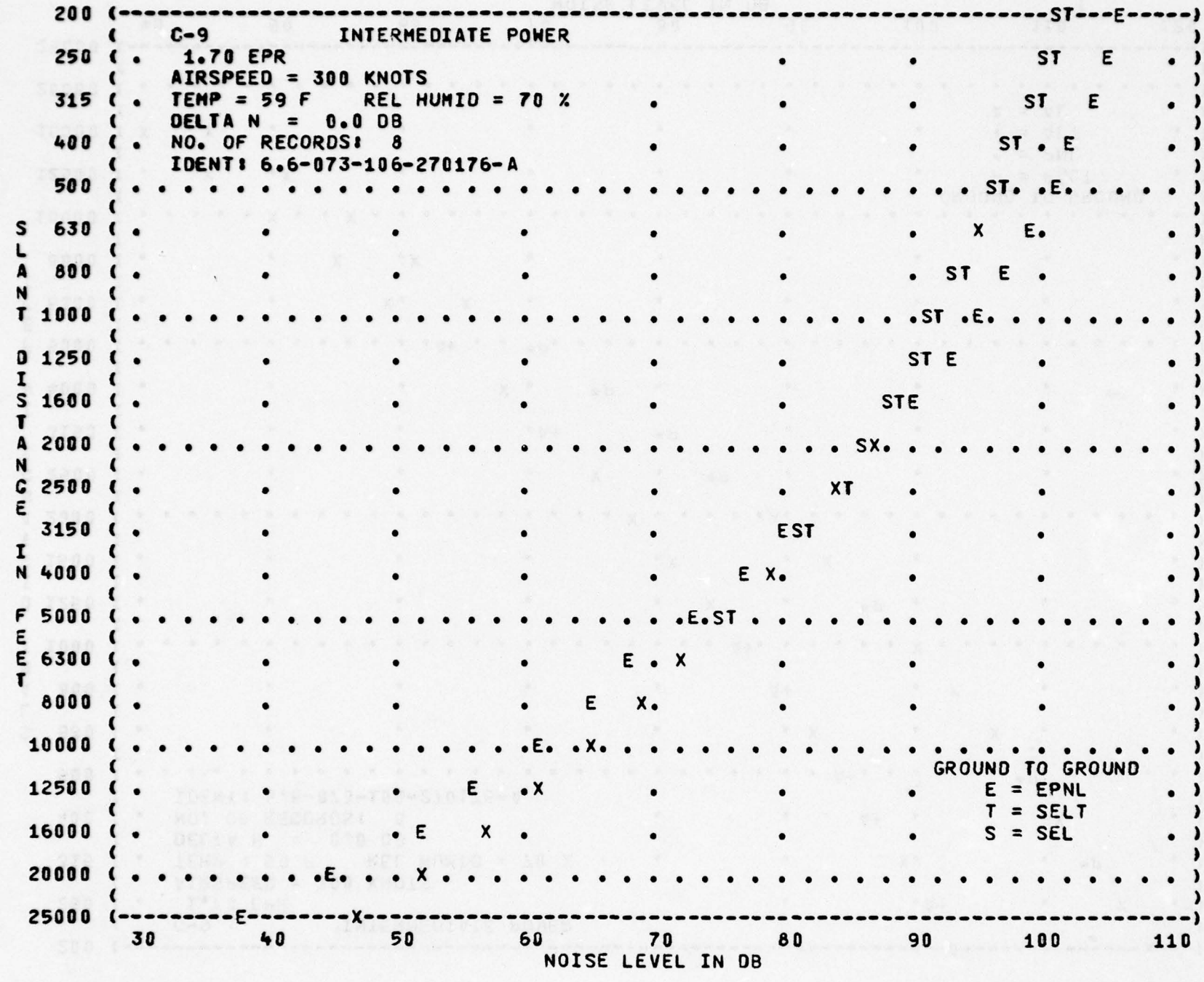
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 073
OPS CODE: 106
PROFILE VER: A
27 JAN 76
PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	103.2	103.8	117.8	118.4	101.3	102.1	106.2
250	101.0	101.6	115.5	116.1	100.1	100.9	104.9
315	98.8	99.3	113.2	113.7	98.8	99.6	103.6
400	96.4	97.0	110.8	111.3	97.5	98.3	102.2
500	94.1	94.6	108.2	108.8	96.1	96.9	100.6
630	91.6	92.1	105.5	106.1	94.6	95.4	98.9
800	89.1	89.6	102.7	103.2	93.1	93.9	97.1
1000	86.4	87.0	99.6	100.1	91.5	92.3	95.0
1250	83.7	84.2	96.3	96.8	89.7	90.5	92.7
1600	80.9	81.4	92.7	93.2	87.9	88.7	90.1
2000	78.0	78.5	88.8	89.3	86.0	86.8	87.2
2500	74.8	75.3	84.4	84.9	83.8	84.6	83.8
3150	71.3	71.9	80.0	80.5	81.4	82.2	80.4
4000	67.5	68.0	75.4	75.8	78.6	79.2	76.6
5000	63.3	63.6	70.5	70.8	75.3	75.8	72.5
6300	58.8	59.0	65.2	65.4	71.8	72.1	68.1
8000	54.6	54.7	60.8	60.9	68.6	68.8	64.5
10000	50.1	50.1	56.0	56.0	65.2	65.2	60.6
12500	45.2	45.2	50.9	50.9	61.3	61.3	56.5
16000	39.9	39.9	44.9	44.9	57.0	57.0	51.5
20000	34.1	34.1	37.8	37.8	52.2	52.2	45.4
25000	27.8	27.8	29.6	29.6	46.9	46.9	38.1

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-9 INTERMEDIATE POWER
1.70 EPR
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-073-106-270176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


C-9 INTERMEDIATE POWER
1.70 EPR
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-073-106-270176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

USAF C-9A AIRCRAFT C-9A AIRCRAFT C-9A AIRCRAFT C-9A AIRCRAFT USAF

NOISE PRODUCED ON THE GROUND BY

C-9A AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-073-001
AIRCRAFT CODE: 73
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING	PAGE
IDLE - 1.05 EPR	446 - 451
1.7 EPR	452 - 457
1.8 EPR	458 - 463
TAKEOFF - 2.0 EPR	464 - 469

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
- NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
- PERCEIVED NOISE LEVEL
- TONE-CORRECTED, PERCEIVED NOISE LEVEL
- A-WEIGHTED OVERALL SOUND LEVEL
- TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF C-9A AIRCRAFT C-9A AIRCRAFT C-9A AIRCRAFT C-9A AIRCRAFT USAF

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 01

NOISE SOURCE/SUBJECT:
C-9A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
IDLE, 1.05 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

AIRCRAFT CODE 73
OPERATION CODE 02013
PROFILE VERSION A
06 FEB 76

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	69	70	72	73	73	73	70	68	66	68	70	73	73	71	71	73	71	70	67
63	67	71	69	70	73	70	66	67<	66<	71	72	70	70	66	70	71	74	73	70
80	66	66	68	70	73	68	66	67<	66	70	66	68	70	71	70	69	76	73	70
100	67	69	67	68	71	67<	66<	66	66	68	67	68	68	68	68	68	71	70	67
125	70	66	69	68	70	67	66	67	68	70	70	70	69	70	70	68	72	68	65
160	73	69	72	70	70	68	68	69	70	68	70	70	70	71	70	70	73	69	62
200	71	74	69	68	65	66	62	64	63	65	64	64	64	65	63	66	71	65	62
250	69	74	69	70	67	65	64	64	64	67	66	64	64	66	63	65	73	71	63
315	69	72	69	70	67	65	64	62	64	65	64	61	61	64	64	68	74	70	61
400	66	72	68	67	66	64	64	64	63	63	64	61	58	61	61	64	71	67	61
500	66	69	69	68	67	64	64	66	68	64	65	61	58	60	61	64	70	67	62
630	68	67	66	69	67	65	65	66	67	65	67	61	60	63	64	64	70	67	61
800	69	72	69	71	70	67	64	65	67	69	70	63	60	62	64	66	70	67	62
1000	72	76	72	73	72	69	67	67	67	70	70	64	61	62	64	64	70	66	61
1250	78	78	76	76	73	70	67	67	67	70	69	64	61	63	64	66	69	67	62
1600	77	79	79	80	77	74	72	70	71	75	72	67	64	68	69	71	72	69	66
2000	80	81	85	84	79	79	78	77	76	74	70	68	65	66	66	68	71	68	62
2500	87	86	86	84	81	78	81	81	76	77	73	71	68	66	68	69	73	69	65
3150	82	80	80	80	80	77	77	75	74	77	73	70	68	69	69	71	74	71	67
4000	80	81	82	82	81	78	76	74	75	77	74	71	68	70	70	73	74	71	65
5000	77	77	77	78	76	73	71	71	67	71	68	65	62	65	66	67	69	66	60
6300	75	78	76	75	73	72	69	69	67	69	68	65	62	64	65	66	68	64	60
8000	73	75	74	73	70	70	67	67	65	67	64	62	59	62	62	64	65	61	56
10000	70	72	70	70	68	66	63	63	62	60	57	57	54	56	56	57	59	54	50
OVERALL	91	91	91	90	88	86	86	85	83	85	83	81	80	81	81	82	86	83	78

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-9A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
IDLE, 1.05 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 01
AIRCRAFT CODE 73
OPERATION CODE 02013
PROFILE VERSION A
06 FEB 76
PAGE 01

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	108.0	107.9	107.7	106.4	104.6	102.1	102.3	102.1	99.3	101.2	98.8	96.0	93.5	95.0	95.4	97.3	100.1	96.9	91.9
250	105.7	105.6	105.4	104.1	102.2	99.7	100.0	99.8	97.0	98.9	96.5	93.7	91.2	92.5	93.0	94.9	97.8	94.6	89.5
315	103.4	103.3	103.1	101.8	99.8	97.3	97.7	97.5	94.7	96.6	94.0	91.2	88.7	90.2	90.6	92.5	95.4	92.2	87.2
400	101.0	100.9	100.7	99.4	97.2	94.8	95.3	95.0	92.3	94.1	91.5	88.7	86.2	87.7	88.1	90.0	93.0	89.6	84.8
500	98.5	98.4	98.2	96.8	94.7	92.2	92.8	92.5	89.8	91.5	88.9	86.0	83.6	85.0	85.4	87.3	90.4	87.0	82.2
630	95.9	95.7	95.5	94.2	92.0	89.6	90.1	89.9	87.1	88.8	86.0	83.3	80.9	82.3	82.6	84.5	87.7	84.3	79.5
800	93.1	92.9	92.7	91.4	89.2	86.7	87.4	87.1	84.3	85.9	83.2	80.4	77.9	79.4	79.7	81.5	84.9	81.4	76.6
1000	90.1	89.9	89.8	88.4	86.2	83.8	84.4	84.1	81.3	82.8	80.2	77.4	74.8	76.3	76.6	78.2	81.8	78.4	73.6
1250	86.9	86.7	86.6	85.2	83.0	80.6	81.2	80.9	78.1	79.5	77.0	74.2	71.5	72.9	73.2	74.8	78.5	75.1	70.2
1600	83.4	83.3	83.1	81.7	79.5	77.2	77.7	77.5	74.7	76.0	73.5	70.7	67.9	69.2	69.6	71.2	75.0	71.5	66.5
2000	79.7	79.5	79.3	77.9	75.7	73.6	73.9	73.6	70.9	72.1	69.7	66.8	64.0	65.1	65.5	67.1	71.2	67.5	62.5
2500	75.5	75.3	75.1	73.7	71.5	69.6	69.7	69.5	66.7	68.0	65.5	62.5	59.6	60.4	61.5	63.2	67.0	63.2	58.2
3150	70.8	70.7	70.4	69.0	66.7	65.1	64.9	64.7	61.9	63.2	60.7	57.5	54.6	55.9	56.9	58.6	62.3	58.6	53.5
4000	65.5	65.4	65.3	63.7	61.4	60.1	59.5	59.3	56.6	57.9	55.7	51.9	48.3	50.8	51.9	53.6	57.1	53.5	48.1
5000	59.5	59.5	59.7	57.7	55.7	54.3	53.5	53.0	50.3	52.4	50.1	44.9	41.2	44.0	45.7	47.7	51.6	47.4	41.7
6300	52.4	52.7	53.5	51.5	49.4	47.8	46.7	45.8	42.6	45.8	43.1	37.3	32.9	36.7	38.5	40.7	44.6	40.8	34.6
8000	44.3	45.4	46.4	44.6	41.4	40.0	38.7	37.4	35.1	38.3	36.8	28.2	23.0	26.8	29.9	32.6	38.7	34.5	24.8
10000	36.2	36.0	37.0	35.8	32.7	29.6	27.6	26.2	26.9	29.0	29.0	15.9	13.1	14.6	19.3	22.4	32.1	26.6	14.3
12500	24.4	27.9	24.1	23.6	21.2	14.8	10.4	11.9	10.3	15.5	18.8	3.7	3.2	2.4	8.7	9.4	23.0	15.6	3.8
16000	12.7	13.6	8.0	6.7	9.7				5.7	1.9	8.6						11.6	4.6	
20000	.9																.2		
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 01
AIRCRAFT CODE 73
OPERATION CODE 02013
PROFILE VERSION A
06 FEB 76
PAGE E1

NOISE SOURCE/SUBJECT:
C-9A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
IDLE, 1.05 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	110.2	109.6	108.9	107.7	104.6	103.2	103.5	103.7	100.7	101.2	100.0	97.3	94.5	96.1	96.7	98.5	100.1	97.9	93.2
250	107.9	107.4	106.6	105.4	102.2	100.9	101.2	101.4	98.4	98.9	97.6	94.9	92.2	93.7	94.3	96.2	97.8	95.6	90.9
315	105.6	105.0	104.3	103.1	99.8	98.4	98.9	99.1	96.1	96.6	95.2	92.5	89.8	91.3	91.9	93.8	95.4	93.2	88.5
400	103.2	102.6	101.9	100.6	97.2	95.9	96.5	96.7	93.6	94.1	92.7	89.9	87.2	88.8	89.4	91.2	93.0	90.7	86.0
500	100.7	100.1	99.3	98.1	94.7	93.4	93.9	94.2	91.1	91.5	90.0	87.2	84.6	86.1	86.7	88.5	90.4	88.0	83.5
630	98.0	97.4	96.7	95.5	92.0	90.7	91.3	91.5	88.5	88.8	87.2	84.5	81.9	83.4	83.9	85.7	87.7	85.3	80.8
800	95.3	94.6	93.9	92.7	89.2	87.9	88.5	88.7	85.7	85.9	84.3	81.7	79.0	80.5	81.0	82.7	84.9	82.5	77.9
1000	92.3	91.7	90.9	89.7	86.2	84.9	85.5	85.8	82.7	82.8	81.3	78.7	75.9	77.4	77.9	79.4	81.8	79.4	74.8
1250	89.1	88.5	87.7	86.5	83.0	81.8	82.3	82.6	79.5	79.5	78.1	75.4	72.5	74.0	74.6	76.1	78.5	76.1	71.5
1600	85.6	85.0	84.3	83.0	79.5	78.4	78.9	79.1	76.0	76.0	74.7	71.9	69.0	70.3	70.9	72.4	75.0	72.5	67.8
2000	81.9	81.3	80.5	79.2	75.7	74.7	75.1	75.3	72.2	72.1	70.9	68.0	65.0	66.2	66.8	68.3	71.2	68.5	63.7
2500	77.7	77.1	76.3	75.0	71.5	70.7	70.8	71.1	68.0	68.0	66.7	63.7	60.6	61.5	62.8	64.4	67.0	64.2	59.5
3150	73.0	72.4	71.6	70.3	66.7	66.2	66.1	66.4	63.3	63.2	61.9	58.7	55.6	57.0	58.2	59.8	62.3	59.6	54.8
4000	67.3	66.8	66.2	64.7	61.4	61.0	60.5	60.6	57.7	57.9	56.6	52.9	49.1	51.6	53.0	54.6	57.1	54.3	49.1
5000	60.8	60.0	60.4	58.5	55.7	55.0	54.0	54.0	51.1	52.4	50.8	45.6	41.8	44.7	46.5	48.5	51.6	48.0	42.5
6300	53.3	53.4	53.9	52.0	49.4	48.3	47.2	45.4	43.1	45.8	43.6	37.8	33.3	37.1	39.0	41.2	44.6	41.2	35.1
8000	44.8	45.8	46.0	44.8	41.4	40.2	38.9	37.7	35.4	38.3	37.1	28.5	23.2	27.0	30.2	32.9	38.7	34.8	25.0
10000	36.2	38.0	37.0	35.8	32.7	29.6	27.6	28.2	26.9	29.0	29.0	15.9	13.1	14.6	19.3	22.4	32.1	26.6	14.3
12500	24.4	27.9	24.1	23.6	21.2	14.8	10.4	11.9	10.3	15.5	18.8	3.7	3.2	2.4	8.7	9.4	23.0	15.6	3.8
16000	12.7	13.6	8.0	8.7	9.7				5.7	1.9	8.6						11.6	4.6	
20000	.9																.2		
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 01
AIRCRAFT CODE 73
OPERATION CODE 02013
PROFILE VERSION A
06 FEB 76
PAGE F1

NOISE SOURCE/SUBJECT:
C-9A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
IDLE, 1.05 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE	ANGLE (DEGREES)																		
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	93.8	93.7	94.1	92.7	90.8	88.7	88.5	87.8	85.2	87.4	84.5	81.2	78.5	79.9	80.6	82.2	85.2	81.9	77.0
250	91.6	91.5	91.9	90.4	88.6	86.5	86.2	85.6	82.9	85.1	82.2	79.0	76.2	77.5	78.3	80.0	83.0	79.7	74.8
315	89.3	89.1	89.6	88.1	86.2	84.1	83.9	83.3	80.6	82.8	79.9	76.6	73.9	75.3	76.0	77.6	80.7	77.4	72.5
400	86.9	86.8	87.2	85.7	83.8	81.7	81.5	80.9	78.2	80.4	77.6	74.2	71.5	72.8	73.6	75.2	78.4	75.1	70.2
500	84.4	84.3	84.8	83.2	81.3	79.2	79.1	78.4	75.7	77.9	75.1	71.7	69.0	70.3	71.1	72.7	76.0	72.6	67.8
630	81.9	81.7	82.2	80.6	78.7	76.6	76.5	75.9	73.1	75.3	72.6	69.1	66.4	67.7	68.5	70.2	73.5	70.1	65.3
800	79.2	79.0	79.5	77.9	76.0	73.9	73.8	73.2	70.4	72.6	69.9	66.4	63.6	65.0	65.9	67.5	70.9	67.5	62.7
1000	76.3	76.2	76.7	75.0	73.1	71.1	71.0	70.3	67.6	69.7	67.2	63.6	60.8	62.2	63.1	64.7	68.2	64.8	60.0
1250	73.3	73.3	73.7	72.0	70.1	68.1	68.0	67.3	64.6	66.7	64.3	60.0	57.8	59.2	60.1	61.7	65.3	62.0	57.2
1600	70.1	70.1	70.6	68.8	66.8	64.9	64.8	64.1	61.5	63.5	61.3	57.4	54.6	56.1	57.1	58.6	62.4	59.0	54.2
2000	66.6	66.7	67.1	65.4	63.4	61.5	61.3	60.7	58.1	60.2	58.2	54.1	51.3	52.8	53.9	55.4	59.3	56.0	51.1
2500	62.8	63.1	63.4	61.8	59.7	57.9	57.5	56.9	54.0	56.6	54.8	50.5	47.7	49.4	50.5	52.0	56.0	52.7	47.9
3150	58.7	59.2	59.4	57.8	55.8	53.9	53.4	52.8	50.8	52.8	51.3	46.8	43.9	45.7	46.9	48.4	52.4	49.2	44.3
4000	54.2	55.0	55.0	53.6	51.6	49.7	48.9	48.3	46.7	48.7	47.6	42.7	39.9	41.8	43.1	44.4	48.6	45.4	40.5
5000	49.4	50.4	50.1	49.0	47.0	45.0	44.0	43.4	42.3	44.3	43.4	38.4	35.5	37.5	38.8	40.1	44.4	41.2	36.3
6300	44.1	45.4	44.8	44.0	42.0	39.8	38.6	38.1	37.5	39.5	38.9	33.6	30.8	32.8	34.2	35.5	39.9	36.7	31.8
8000	38.7	40.2	39.1	38.8	36.8	34.5	33.1	32.8	32.9	34.6	34.4	28.9	26.2	28.2	29.6	30.9	35.6	32.5	27.4
10000	32.9	34.7	33.1	33.3	31.4	28.9	27.4	27.4	28.1	29.4	29.6	24.0	21.3	23.4	24.8	26.0	31.1	27.9	22.8
12500	26.8	28.8	27.0	27.3	25.6	23.1	21.7	22.0	23.0	23.7	24.3	18.7	16.2	18.2	19.6	20.9	26.2	23.0	17.8
16000	20.3	22.5	20.6	21.1	19.5	17.0	15.9	16.3	17.5	17.6	18.5	13.1	10.9	12.8	14.0	15.5	21.0	17.8	12.5
20000	13.5	16.0	14.1	14.5	13.1	10.6	9.7	10.4	11.6	11.1	12.2	7.3	5.4	7.2	8.2	9.8	15.4	12.2	6.8
25000	6.6	9.3	7.4	7.7	6.5	4.0	3.3	4.0	5.3	4.4	5.5	1.4	.0	1.5	2.2	3.8	9.5	6.2	.9

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-9A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
IDLE, 1.05 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 01
AIRCRAFT CODE 73
OPERATION CODE 02013
PROFILE VERSION A
06 FEB 76

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	96.0	95.5	95.3	94.0	90.0	89.9	89.6	89.5	86.5	87.4	85.7	82.5	79.5	81.0	81.9	83.5	85.2	82.9	78.3
250	93.6	93.2	93.1	91.7	88.6	87.6	87.4	87.2	84.3	85.1	83.4	80.2	77.2	78.7	79.6	81.2	83.0	80.7	76.1
315	91.5	90.9	90.8	89.4	86.2	85.3	85.1	84.9	81.9	82.8	81.1	77.9	74.9	76.4	77.3	78.9	80.7	78.4	73.8
400	89.1	88.5	88.4	87.0	83.8	82.9	82.7	82.5	79.6	80.4	78.7	75.4	72.5	73.9	74.9	76.5	78.4	76.1	71.5
500	86.6	86.0	86.0	84.5	81.3	80.4	80.2	80.1	77.1	77.9	76.3	73.0	70.0	71.4	72.4	74.0	76.0	73.7	69.0
630	84.1	83.5	83.4	81.9	78.7	77.8	77.7	77.5	74.5	75.3	73.7	70.4	67.4	68.8	69.9	71.4	73.5	71.2	66.5
800	81.4	80.8	80.7	79.2	76.0	75.1	75.0	74.8	71.8	72.6	71.1	67.6	64.7	66.1	67.2	68.7	70.9	68.6	63.9
1000	78.5	78.0	77.9	76.3	73.1	72.3	72.1	72.0	69.0	69.7	68.3	64.8	61.8	63.3	64.4	65.9	68.2	65.9	61.2
1250	75.5	75.0	74.9	73.3	70.1	69.3	69.1	69.0	66.0	66.7	65.5	61.8	58.8	60.3	61.5	63.0	65.3	63.0	58.4
1600	72.3	71.8	71.7	70.1	66.8	66.1	65.9	65.8	62.8	63.5	62.5	58.6	55.6	57.2	58.4	59.9	62.4	60.1	55.5
2000	68.8	68.5	68.3	66.7	63.4	62.7	62.4	62.3	59.5	60.2	59.3	55.3	52.3	53.9	55.2	56.7	59.3	57.0	52.4
2500	65.0	64.8	64.6	63.0	59.7	59.0	58.7	58.5	55.9	56.6	56.0	51.8	48.7	50.4	51.8	53.2	56.0	53.7	49.1
3150	60.9	60.9	60.6	59.1	55.8	55.1	54.6	54.5	52.1	52.8	52.5	48.0	45.0	46.8	48.3	49.6	52.4	50.2	45.6
4000	56.6	56.3	55.9	54.6	51.6	50.6	49.8	49.6	47.0	48.7	48.5	43.7	40.7	42.6	44.1	45.4	48.6	46.2	41.5
5000	50.7	51.4	50.8	49.8	47.0	45.7	44.7	44.4	43.1	44.3	44.1	39.1	36.1	38.1	39.6	40.9	44.4	41.8	37.1
6300	45.0	46.1	45.2	44.5	42.0	40.3	39.0	38.7	38.0	39.5	39.4	34.1	31.2	33.2	34.7	36.0	39.9	37.1	32.3
8000	39.1	40.6	39.3	39.1	36.8	34.8	33.3	33.1	33.2	34.6	34.7	29.2	26.4	28.4	29.9	31.1	35.6	32.7	27.7
10000	32.9	34.7	33.1	33.3	31.4	28.9	27.4	27.4	28.1	29.4	29.6	24.0	21.3	23.4	24.8	26.0	31.1	27.9	22.8
12500	26.8	28.8	27.0	27.3	25.6	23.1	21.7	22.0	23.0	23.7	24.3	18.7	16.2	18.2	19.6	20.9	26.2	23.0	17.8
16000	20.3	22.5	20.6	21.1	19.5	17.0	15.9	16.3	17.5	17.6	18.5	13.1	10.9	12.8	14.0	15.5	21.0	17.8	12.5
20000	13.5	16.0	14.1	14.5	13.1	10.6	9.7	10.4	11.6	11.1	12.2	7.3	5.4	7.2	8.2	9.8	15.4	12.2	6.8
25000	6.6	9.3	7.4	7.7	6.5	4.0	3.3	4.0	5.3	4.4	5.5	1.4	.0	1.5	2.2	3.8	9.5	6.2	.9

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
C-9A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
IDLE, 1.05 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 01
AIRCRAFT CODE 73
OPERATION CODE 02013
PROFILE VERSION A
06 FEB 76
PAGE J1

P=PNLT A=AL T=ALT

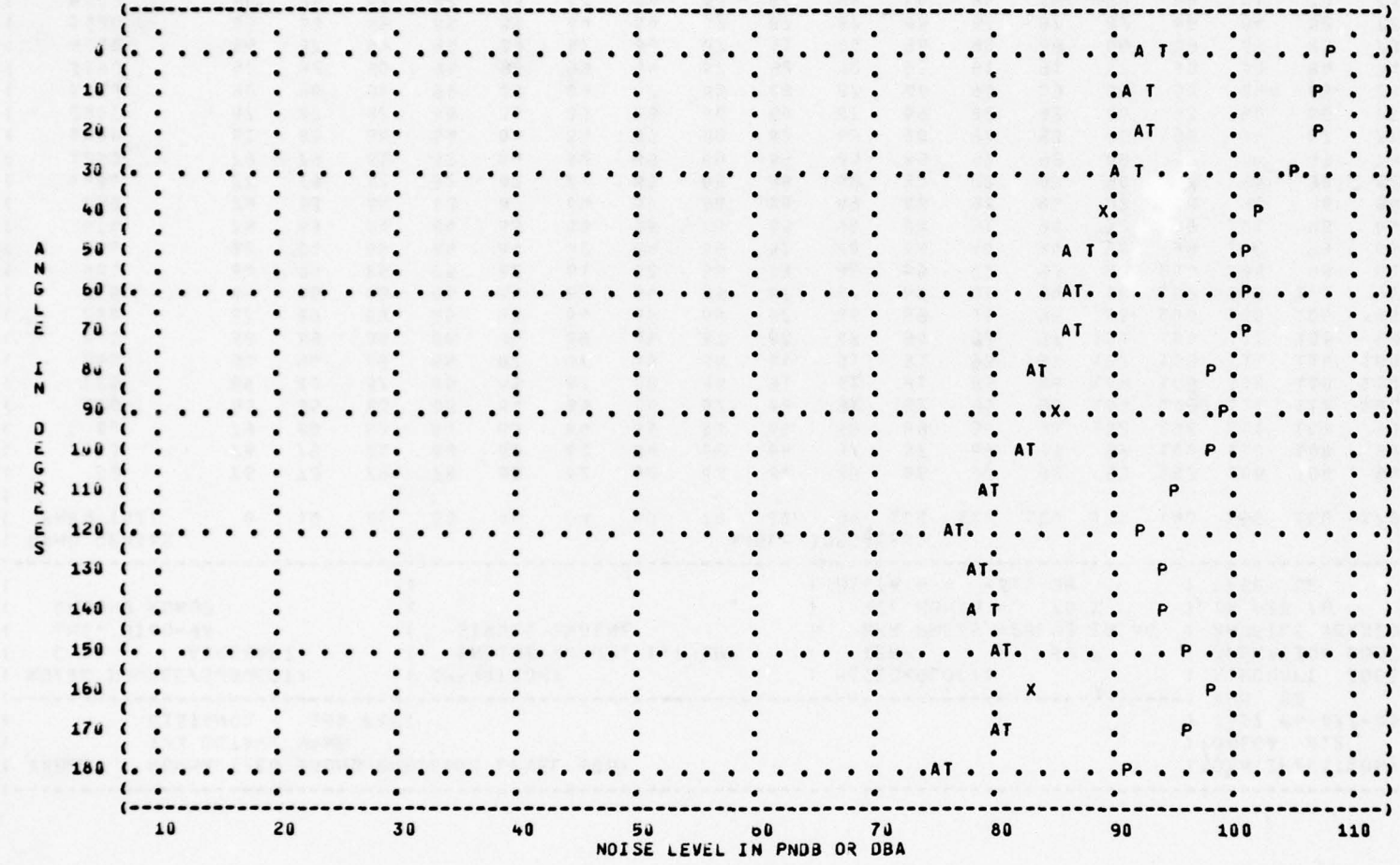


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 02
AIRCRAFT CODE 73
OPERATION CODE 02032
PROFILE VERSION A
06 FEB 76
PAGE C2

NOISE SOURCE/SUBJECT:
C-9A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 1.7 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	78	78	79	79	80	82	82	83	84	85	86	90	92	98	103	108	104	94	84
63	78	79	81	80	82	82	84	82	84	87	87	89	93	99	106	110	108	98	88
80	79	80	82	83	83	84	85	85	85	89	89	93	96	102	108	111	109	99	89
100	83	85	83	83	84	85	86	87	88	91	92	95	98	104	109	112	112	102	92
125	85	88	87	85	85	87	88	88	91	91	91	93	96	104	108	110	110	100	90
160	90	90	88	86	87	87	88	88	91	91	91	93	97	102	109	111	110	100	90
200	88	89	88	86	85	85	86	87	88	88	90	93	97	101	104	111	108	98	88
250	82	85	89	85	83	84	85	85	87	88	89	91	95	98	103	108	104	94	84
315	84	86	88	85	84	82	84	85	87	87	88	91	94	98	102	105	101	91	81
400	84	84	85	85	82	81	82	85	85	86	85	90	93	93	100	104	98	88	78
500	82	84	85	84	84	82	84	85	87	88	86	90	94	92	99	102	98	88	78
630	79	83	84	84	83	83	85	85	88	90	88	91	94	92	99	101	95	85	75
800	79	83	84	83	85	84	85	86	88	89	88	93	93	92	98	99	94	84	74
1000	77	79	82	82	83	82	85	85	88	89	90	92	93	90	97	98	92	82	72
1250	79	79	81	82	84	82	85	85	88	88	89	92	93	89	95	94	89	79	69
1600	82	82	84	84	85	84	85	86	88	88	90	93	93	90	95	94	87	77	67
2000	87	87	87	88	86	85	86	86	88	87	89	92	92	88	93	90	85	75	65
2500	90	90	90	90	89	89	87	85	89	87	88	90	89	85	90	89<	83	73	63
3150	92	92	95	95	95	95	94	87	92	92	93	91	91	87	90	88	84	74	64
4000	86	87	90	90	89	87	86	87	91	90	90	90	89	86	89	87	83	73	63
5000	85	83	85	85	85	84	84	82	87	87	88	87	87	82	86	84	82	72	62
6300	86	90	87	87	88	87	84	83	87	84	84	84	85	80	84	81	83	73	63
8000	83	82	83	83	83	82	82	80	85	83	84	82	82	78	82	78	81	71	61
10000	81	81	83	83	83	80	81	77	83	78	78	77	80	75	78	73	82	72	62
OVERALL	99	100	101	100	100	100	100	99	102	102	103	105	107	111	117	120	118	108	98

XXX< = EXTRAPOLATED OR INTERPOLATED SPL
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 02
AIRCRAFT CODE 73
OPERATION CODE 02032
PROFILE VERSION A
06 FEB 76
PAGE D2

NOISE SOURCE/SUBJECT:
C-9A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 1.7 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	113.4	115.9	116.0	117.7	117.8	117.3	116.8	113.9	117.5	117.5	118.1	118.4	119.4	118.4	123.7	125.7	122.8	112.8	102.7
250	113.1	113.7	115.7	115.4	115.5	115.0	114.5	111.6	115.2	115.2	115.9	116.2	117.2	116.3	121.6	123.6	120.7	110.7	100.6
315	110.8	111.3	113.4	113.1	113.1	112.7	112.2	109.2	112.8	112.9	113.5	113.9	114.9	114.1	119.4	121.5	118.6	108.6	98.5
400	108.3	108.8	110.9	110.6	110.7	110.2	109.7	106.8	110.4	110.4	111.1	111.5	112.5	111.9	117.2	119.3	116.4	106.3	96.2
500	105.7	106.3	108.3	108.1	108.1	107.7	107.2	104.3	107.9	107.9	108.6	109.0	110.1	109.5	114.8	117.0	114.0	103.9	93.8
630	103.6	103.6	105.6	105.3	105.4	104.9	104.5	101.6	105.2	105.3	105.9	106.4	107.5	107.0	112.3	114.5	111.6	101.6	91.3
800	100.1	100.7	102.8	102.5	102.5	102.1	101.6	98.8	102.3	102.5	103.1	103.6	104.8	104.4	109.7	111.9	109.1	99.0	88.7
1000	97.6	97.6	99.7	99.4	99.4	99.0	98.6	95.8	99.3	99.4	100.1	100.7	101.8	101.7	107.0	109.2	106.4	96.2	85.7
1250	93.6	94.2	96.3	96.0	96.0	95.6	95.2	92.5	96.0	96.1	96.8	97.7	98.8	98.7	104.0	106.3	103.3	93.1	82.3
1600	90.6	90.5	92.7	92.3	92.4	91.9	91.6	88.9	92.4	92.6	93.2	94.5	95.7	95.4	100.8	103.2	100.1	89.8	78.7
2000	87.9	88.5	88.6	88.3	88.3	87.9	87.6	85.1	88.4	88.7	89.3	91.1	92.2	91.8	97.7	100.1	96.4	85.9	75.0
2500	81.6	82.3	84.2	83.9	83.9	83.4	83.2	81.0	84.1	84.4	85.0	87.3	88.5	87.8	93.8	96.3	92.3	81.7	71.1
3150	76.9	77.6	79.1	78.8	78.8	78.4	78.3	76.7	79.4	79.5	80.4	83.2	84.3	83.6	89.6	92.1	88.0	77.4	66.8
4000	71.6	72.4	73.4	73.1	73.2	72.7	72.7	72.0	74.7	75.0	75.8	78.7	79.8	79.0	85.0	87.4	83.3	72.7	62.0
5000	65.7	66.5	67.3	67.5	66.8	66.2	66.8	66.8	69.6	70.1	70.7	73.7	74.9	74.4	80.3	82.6	78.4	67.8	56.7
6300	59.6	60.4	61.2	61.4	61.0	59.9	61.4	61.5	64.1	64.9	65.1	68.3	69.7	69.3	75.3	77.6	73.4	62.7	51.2
8000	53.5	55.0	56.1	55.6	56.1	55.0	56.6	56.8	59.5	60.3	60.0	63.8	65.3	65.2	71.3	74.0	69.8	58.8	46.8
10000	48.1	49.7	51.1	50.3	50.6	49.4	51.3	51.6	54.6	55.5	54.9	58.9	60.8	60.7	67.2	70.1	65.9	54.6	41.8
12500	42.0	43.9	45.4	44.1	44.0	43.0	45.0	45.9	49.0	50.0	49.2	53.3	55.8	56.1	62.8	66.0	61.8	50.1	36.6
16000	34.5	36.7	38.7	37.0	36.9	35.5	37.9	39.6	42.4	43.6	42.7	46.9	50.3	50.9	57.9	61.4	57.2	44.7	30.5
20000	27.2	29.2	31.0	29.0	29.2	26.5	29.5	31.5	34.5	36.2	34.9	39.9	43.9	44.9	52.5	56.3	52.1	38.6	18.6
25000	14.2	17.4	20.7	17.7	17.2	13.3	17.4	20.5	24.4	27.1	24.2	31.0	36.5	37.9	45.9	50.4	45.9	31.4	6.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
G-3A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 1.7 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 02
AIRCRAFT CODE 73
OPERATION CODE 02032
PROFILE VERSION A
06 FEB 76
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	116.7	117.1	119.8	119.5	119.8	119.9	119.1	113.9	117.5	118.7	119.5	118.4	119.4	118.4	124.2	125.7	122.8	112.8	102.7
250	114.4	114.8	117.5	117.2	117.5	117.6	116.8	111.6	115.2	116.4	117.3	116.2	117.2	116.3	122.1	123.6	120.7	110.7	100.6
315	112.0	112.5	115.1	114.8	115.2	115.2	114.5	109.2	112.8	114.1	114.9	113.9	114.9	114.1	120.0	121.5	118.6	108.6	98.5
400	109.5	110.0	112.7	112.3	112.7	112.8	112.0	106.8	110.4	111.7	112.5	111.5	112.5	111.9	117.7	119.3	116.4	106.3	96.2
500	107.0	107.5	110.1	109.8	110.1	110.2	109.5	104.3	107.9	109.2	110.0	109.0	110.1	109.5	115.4	117.0	114.0	103.9	93.8
630	104.2	104.7	107.4	107.1	107.4	107.5	106.8	101.6	105.2	106.5	107.3	106.4	107.5	107.0	112.9	114.5	111.6	101.6	91.3
800	101.3	101.9	104.5	104.2	104.5	104.6	103.9	98.8	102.3	103.7	104.5	103.6	104.8	104.4	110.3	111.9	109.1	99.0	88.7
1000	98.2	98.8	101.5	101.1	101.4	101.5	100.9	95.8	99.3	100.7	101.5	100.7	101.8	101.7	107.5	109.2	106.4	96.2	85.7
1250	94.9	95.4	98.1	97.7	98.1	98.1	97.5	92.5	96.0	97.4	98.2	97.7	98.8	98.7	104.5	106.3	103.3	93.1	82.3
1600	91.2	91.7	94.4	94.1	94.4	94.5	93.9	88.9	92.4	93.8	94.6	94.5	95.7	95.4	101.4	103.2	100.1	89.8	78.7
2000	87.2	87.7	90.4	90.0	90.4	90.4	89.9	85.1	88.4	89.9	90.7	91.1	92.2	91.8	98.2	100.1	96.4	85.9	75.0
2500	82.8	83.5	86.0	85.6	85.9	86.0	85.5	81.0	84.1	85.6	86.4	87.3	88.5	87.8	94.3	96.3	92.3	81.7	71.1
3150	78.1	78.8	81.9	81.6	81.9	81.9	81.6	76.7	79.4	80.8	81.8	83.2	84.3	83.6	90.2	92.1	88.0	77.4	66.8
4000	72.6	73.3	76.9	76.5	76.8	76.7	76.5	72.0	74.7	76.0	76.9	78.7	79.8	79.0	85.5	87.4	83.3	72.7	62.0
5000	66.4	67.2	68.4	68.5	68.0	67.7	68.1	66.8	69.6	70.8	71.6	73.7	74.9	74.4	80.6	82.6	78.4	67.8	56.7
6300	60.1	60.9	61.9	62.1	61.9	60.9	62.3	61.5	64.1	65.4	65.7	68.3	69.7	69.3	75.6	77.6	73.4	62.7	51.2
8000	53.7	55.3	56.5	55.9	56.5	55.5	57.0	56.8	59.5	60.6	60.3	63.8	65.3	65.2	71.4	74.0	69.8	58.8	46.8
10000	48.1	49.7	51.1	50.3	50.6	49.4	51.3	51.6	54.6	55.5	54.9	58.9	60.8	60.7	67.2	70.1	65.9	54.6	41.8
12500	42.0	43.9	45.4	44.1	44.0	43.0	45.0	45.9	49.0	50.0	49.2	53.3	55.8	56.1	62.8	66.0	61.8	50.1	36.6
16000	34.5	36.7	38.7	37.0	36.9	35.5	37.9	39.6	42.4	43.0	42.7	46.9	50.3	50.9	57.9	61.4	57.2	44.7	30.5
20000	27.2	29.2	31.0	29.0	29.2	26.5	29.5	31.5	34.5	36.2	34.9	39.9	43.9	44.9	52.5	56.3	52.1	38.6	18.6
25000	14.2	17.4	20.7	17.7	17.2	13.3	17.4	20.5	24.4	27.1	24.2	31.0	36.5	37.9	45.9	50.4	45.9	31.4	6.8

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 02

NOISE SOURCE/SUBJECT:
C-9A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 1.7 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

AIRCRAFT CODE 73
OPERATION CODE 02032
PROFILE VERSION A
06 FEB 76
PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	100.2	100.8	102.3	102.2	102.2	101.5	101.0	99.1	102.6	102.2	102.9	104.5	105.3	103.9	109.3	111.4	107.6	97.6	87.6
250	97.9	98.4	100.0	99.9	99.9	99.2	98.7	96.9	100.3	100.0	100.7	102.3	103.2	101.8	107.2	109.3	105.5	95.5	85.5
315	95.5	96.1	97.6	97.6	97.5	96.9	96.4	94.6	98.0	97.7	98.4	100.1	101.0	99.7	105.1	107.2	103.5	93.5	83.5
400	93.1	93.6	95.2	95.1	95.1	94.4	94.0	92.3	95.6	95.4	96.1	97.9	98.8	97.5	103.0	105.1	101.4	91.4	81.4
500	90.5	91.1	92.7	92.6	92.5	91.9	91.5	89.9	93.2	93.0	93.7	95.6	96.5	95.3	100.8	102.9	99.1	89.1	79.1
630	87.9	88.4	90.0	90.0	89.9	89.3	88.9	87.4	90.6	90.5	91.2	93.2	94.2	93.0	98.5	100.7	96.8	86.8	76.8
800	85.1	85.6	87.3	87.2	87.1	86.5	86.3	84.9	88.0	88.0	88.6	90.7	91.8	90.5	96.2	98.3	94.4	84.4	74.4
1000	82.2	82.7	84.4	84.3	84.2	83.6	83.5	82.3	85.3	85.3	85.9	88.2	89.3	88.1	93.7	95.9	91.8	81.8	71.8
1250	79.2	79.7	81.3	81.2	81.1	80.5	80.3	79.5	82.5	82.6	83.1	85.6	86.7	85.5	91.2	93.3	89.1	79.1	69.1
1600	75.9	76.5	78.0	77.9	77.8	77.2	77.4	76.7	79.6	79.7	80.2	82.8	84.1	82.7	88.5	90.5	86.3	76.3	66.3
2000	72.4	73.1	74.5	74.3	74.4	73.7	74.2	73.8	76.5	76.8	77.2	80.0	81.3	79.6	85.7	87.7	83.3	73.3	63.3
2500	68.7	69.5	70.8	70.8	70.8	70.0	70.8	70.6	73.3	73.7	73.9	76.9	78.2	76.6	82.7	84.6	80.0	70.0	60.0
3150	64.6	65.6	66.8	66.9	66.9	66.0	67.2	67.2	69.9	70.4	70.5	73.6	75.0	73.2	79.3	81.1	76.4	66.4	56.4
4000	60.2	61.4	62.6	62.6	62.9	61.9	63.3	63.5	66.2	66.7	66.8	70.0	71.4	69.5	75.7	77.3	72.5	62.5	52.5
5000	55.4	56.8	58.0	58.1	58.5	57.4	59.1	59.4	62.1	62.7	62.7	66.0	67.4	65.4	71.6	73.2	68.2	58.2	48.2
6300	50.3	52.0	53.2	53.3	53.9	52.8	54.7	55.0	57.7	58.3	58.3	61.6	63.0	61.0	67.3	68.8	63.8	53.8	43.8
8000	45.7	47.7	48.9	48.9	49.5	48.4	50.3	50.8	53.4	54.2	53.9	57.3	58.8	57.1	63.4	65.1	60.3	50.3	40.3
10000	41.1	43.3	44.5	44.2	44.9	43.7	45.7	46.2	48.8	49.7	49.2	52.6	54.3	52.9	59.2	61.2	56.5	46.5	36.5
12500	36.3	38.6	39.8	39.4	39.8	38.8	40.6	41.3	43.7	44.8	44.0	47.5	49.4	48.4	54.6	56.9	52.4	42.4	32.4
16000	31.4	33.6	34.7	34.1	34.4	33.4	35.2	35.9	38.2	39.4	38.4	42.0	44.1	43.6	49.7	52.3	48.2	38.2	28.2
20000	26.2	28.2	29.3	28.5	28.5	27.5	29.2	30.1	32.3	33.5	32.4	36.1	38.4	38.6	44.6	47.5	43.8	33.8	23.8
25000	20.7	22.5	23.5	22.5	22.2	21.3	22.9	23.9	25.9	27.2	26.0	29.7	32.4	33.6	39.3	42.5	39.3	29.3	19.3

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-9A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 1.7 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 02
AIRCRAFT CODE 73
OPERATION CODE 02032
PROFILE VERSION A
06 FEB 76
PAGE G2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	101.4	101.9	104.1	104.0	104.2	104.1	103.2	99.1	102.6	103.5	104.3	104.5	105.3	103.9	109.9	111.4	107.6	97.6	87.6
250	99.1	99.6	101.8	101.7	101.9	101.8	101.0	96.9	100.3	101.3	102.1	102.3	103.2	101.8	107.8	109.3	105.5	95.5	85.5
315	96.7	97.2	99.4	99.3	99.5	99.4	98.7	94.6	98.0	99.0	99.8	100.1	101.0	99.7	105.7	107.2	103.5	93.5	83.5
400	94.3	94.8	97.0	96.9	97.1	97.0	96.3	92.3	95.6	96.7	97.5	97.9	98.8	97.5	103.6	105.1	101.4	91.4	81.4
500	91.8	92.2	94.5	94.3	94.5	94.4	93.8	89.9	93.2	94.3	95.1	95.6	96.5	95.3	101.4	102.9	99.1	89.1	79.1
630	89.1	89.6	91.8	91.7	91.9	91.8	91.2	87.4	90.6	91.8	92.6	93.2	94.2	93.0	99.1	100.7	96.8	86.8	76.8
800	86.4	86.8	89.1	88.9	89.1	89.0	88.6	84.9	88.0	89.2	90.0	90.7	91.8	90.6	96.7	98.3	94.4	84.4	74.4
1000	83.5	83.9	86.1	86.0	86.2	86.1	85.8	82.3	85.3	86.6	87.3	88.2	89.3	88.1	94.3	95.9	91.8	81.8	71.8
1250	80.4	80.9	83.0	82.9	83.1	83.0	82.8	79.5	82.5	83.8	84.5	85.6	86.7	85.5	91.7	93.3	89.1	79.1	69.1
1600	77.1	77.7	79.8	79.7	79.9	79.7	79.7	76.7	79.6	81.0	81.6	82.8	84.1	82.7	89.0	90.5	86.3	76.3	66.3
2000	73.7	74.3	76.3	76.2	76.4	76.2	76.5	73.8	76.5	78.0	78.6	80.0	81.3	79.8	86.3	87.7	83.3	73.3	63.3
2500	69.9	70.7	72.6	72.5	72.8	72.5	73.1	70.6	73.3	74.9	75.3	76.9	78.2	76.6	83.2	84.6	80.0	70.0	60.0
3150	65.8	66.8	68.6	68.6	69.0	68.6	69.5	67.2	69.9	71.6	71.9	73.6	75.0	73.2	79.9	81.1	76.4	66.4	56.4
4000	61.2	62.4	64.0	64.0	64.5	63.9	65.2	63.5	66.2	67.7	67.9	70.0	71.4	69.5	76.1	77.3	72.5	62.5	52.5
5000	56.1	57.6	59.0	59.1	59.7	59.0	60.5	59.4	62.1	63.5	63.6	66.0	67.4	65.4	72.0	73.2	68.2	58.2	48.2
6300	50.8	52.5	53.9	54.0	54.7	53.8	55.6	55.0	57.7	58.8	58.9	61.6	63.0	61.0	67.5	68.8	63.8	53.8	43.8
8000	46.0	48.0	49.3	49.2	49.9	48.9	50.8	50.8	53.4	54.4	54.2	57.3	58.8	57.1	63.5	65.1	60.3	50.3	40.3
10000	41.1	43.3	44.5	44.2	44.9	43.7	45.7	46.2	48.8	49.7	49.2	52.6	54.3	52.9	59.2	61.2	56.5	46.5	36.5
12500	36.3	38.6	39.8	39.4	39.8	38.8	40.6	41.3	43.7	44.8	44.0	47.5	49.4	48.4	54.6	56.9	52.4	42.4	32.4
16000	31.4	33.6	34.7	34.1	34.4	33.4	35.2	35.9	38.2	39.4	38.4	42.0	44.1	43.6	49.7	52.3	48.2	38.2	28.2
20000	26.2	28.2	29.3	28.5	28.5	27.5	29.2	30.1	32.3	33.5	32.4	36.1	38.4	38.6	44.6	47.5	43.8	33.8	23.8
25000	20.7	22.5	23.5	22.5	22.2	21.3	22.9	23.9	25.9	27.2	26.0	29.7	32.4	33.6	39.3	42.5	39.3	29.3	19.3

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

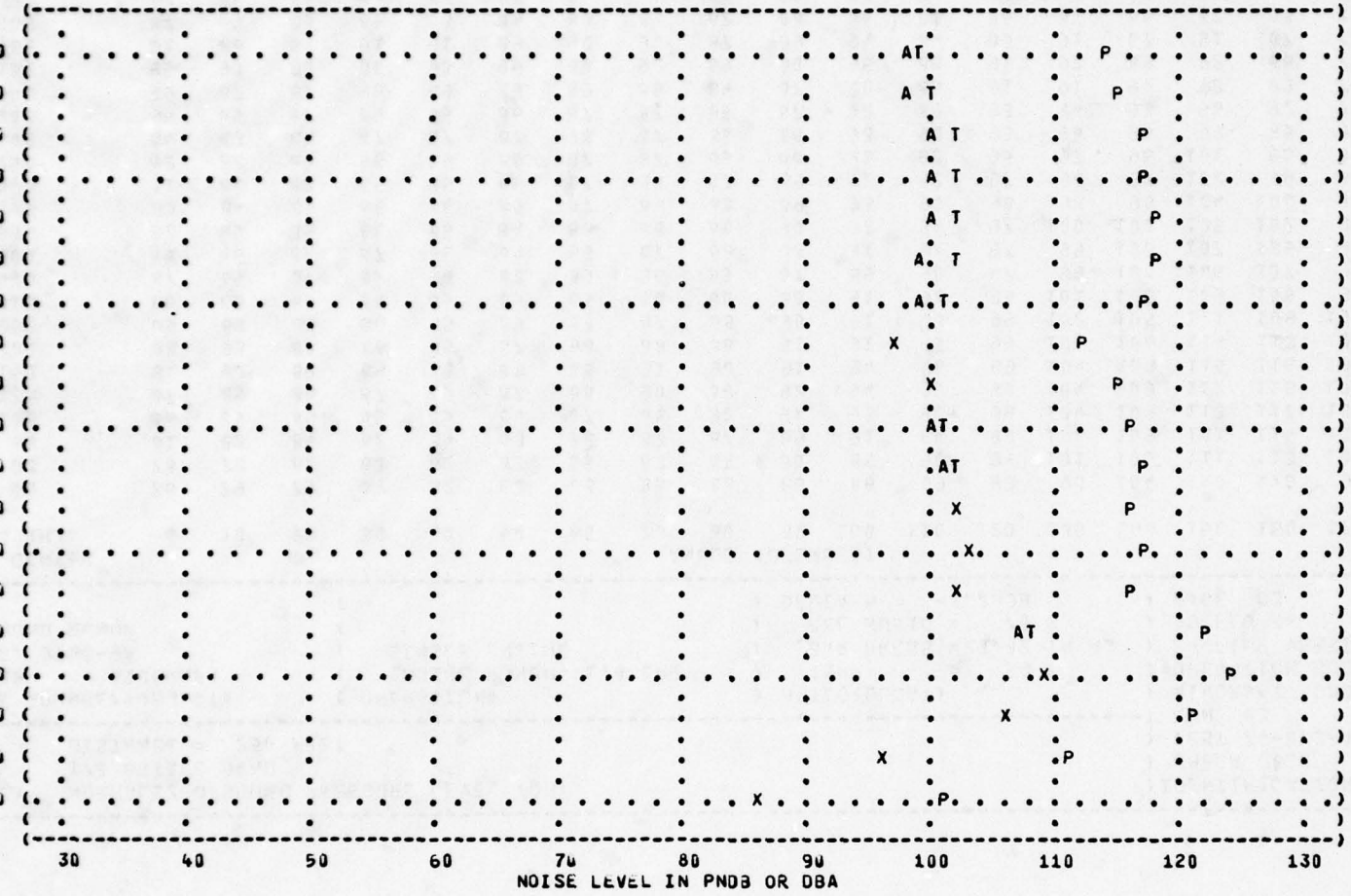
NOISE SOURCE/SUBJECT:
C-9A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 1.7 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 02
AIRCRAFT CODE 73
OPERATION CODE 02032
PROFILE VERSION A
06 FEB 76
PAGE J2

P=PNLT A=AL T=ALT



> SPL DATA HERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 03
AIRCRAFT CODE 73
OPERATION CODE 02033
PROFILE VERSION A
06 FEB 76
PAGE C3

NOISE SOURCE/SUBJECT:
C-9A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 1.8 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	78	79	79	82	82	82	83	85	83	86	86	89	93	98	104	110	110	96	76
63	78	79	81	83	82	83	85	83	85	88	89	90	94	101	106	111	113	101	81
80	81	82	84	82	84	83	86	87	87	89	91	94	99	104	109	111	114	104	84
100	84	85	86	85	85	85	87	88	90	91	93	96	99	104	109	113	118	107	87
125	87	89	86	87	85	87	88	90	89	92	94	96	99	104	109	112	116	104	84
160	91	92	89	89	88	88	88	91	90	91	94	96	99	104	109	115	116	102	82
200	88	90	88	88	85	87	88	88	88	91	92	95	99	104	106	114	113	104	84
250	85	88	89	86	85	85	87	87	88	90	91	93	99	102	105	111	109	102	82
315	86	88	89	88	85	85	85	86	88	88	91	92	98	101	103	109	108	99	79
400	87	85	87	87	84	82	85	86	85	87	89	90	97	99	100	106	107	95	75
500	85	86	86	87	86	84	85	87	88	88	91	92	97	99	100	107	105	92	72
630	82	85	85	86	85	84	86	88	88	90	92	94	97	100	100	105	102	91	71
800	83	84	85	86	86	85	87	88	88	89	93	93	98	98	98	104	100	88	68
1000	81	80	83	85	85	85	87	88	87	89	92	92	97	98	97	102	99	86	66
1250	82	82	82	85	85	85	87	87	86	88	91	92	95	97	96	101	96	83	63
1600	84	83	84	87	87	87	88	87	85	88	93	90	95	95	95	99	95	82	62
2000	95	85	87	89	86	86	87	87	85	87	92	88	93	94	93	96	92	79	59
2500	90	87	87	90	89	88	89	89	84	87	90	85	91	91	90	92	89	76	56
3150	95	93	96	98	98	95	90	92	89	90	95	86	91	92	89	92	88	78	58
4000	91	88	89	91	91	89	90	90	87	89	94	84	88	91	87	91	87	76	56
5000	87	84	83	86	83	84	83	85	82	88	91	81	86	87	85	87	83	71	51
6300	87	84	85	88	85	85	84	84	81	84	87	78	83	83	82	85	81	70	50
8000	83	82	82	85	82	82	81	82	79	82	85	75	79	80	80	81	78	65	45
10000	81	80	80	83	80	80	78	80	74	77	80	70	76	75	75	76	73	61	41
OVERALL	102	101	101	102	102	101	101	101	101	103	105	106	110	114	117	122	124	113	93

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-9A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 1.8 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 03
AIRCRAFT CODE 73
OPERATION CODE 02033
PROFILE VERSION A
06 FEB 76
PAGE 03

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	118.4	116.7	118.5	119.9	119.6	117.8	115.9	117.1	115.0	116.8	120.6	116.0	120.7	122.5	123.8	129.2	128.2	117.4	97.3
250	116.1	114.4	116.2	117.6	117.3	115.5	113.6	114.8	112.7	114.5	118.4	113.8	118.5	120.3	121.7	127.1	126.1	115.3	95.1
315	113.8	112.1	113.8	115.3	114.9	113.2	111.3	112.5	110.4	112.2	116.1	111.5	116.3	118.1	119.6	125.0	124.0	113.3	93.0
400	111.3	109.6	111.4	112.8	112.5	110.7	108.9	110.0	108.0	109.8	113.7	109.2	113.9	115.8	117.3	122.8	121.9	111.1	90.7
500	108.8	107.1	108.9	110.3	109.9	108.2	106.3	107.5	105.5	107.3	111.1	106.8	111.5	113.4	115.0	120.4	119.6	108.7	88.3
630	106.1	104.4	106.2	107.6	107.2	105.5	103.7	104.8	102.9	104.7	108.5	104.3	109.0	110.9	112.5	118.0	117.4	106.4	85.9
800	103.2	101.5	103.3	104.7	104.4	102.6	100.8	102.0	100.1	101.9	105.7	101.7	106.4	108.4	109.9	115.4	114.9	104.0	83.2
1000	100.1	98.5	100.3	101.6	101.3	99.5	97.8	99.0	97.1	98.9	102.7	99.0	103.7	105.7	107.2	112.7	112.2	101.2	80.1
1250	96.6	95.1	96.9	98.3	98.0	96.2	94.5	95.7	93.8	95.6	99.4	96.1	100.8	102.8	104.2	109.7	109.3	98.2	76.7
1600	93.1	91.5	93.3	94.5	94.3	92.6	90.9	92.1	90.3	92.0	95.9	92.9	97.7	99.8	101.1	106.5	106.1	94.9	73.2
2000	89.5	87.5	89.3	90.6	90.4	88.6	87.2	88.2	86.4	88.2	92.0	89.6	94.4	96.7	98.0	103.4	102.8	91.3	70.0
2500	85.6	83.1	84.9	86.2	85.9	84.2	83.1	83.9	82.2	83.9	87.7	86.1	90.8	93.1	94.3	100.0	98.9	87.2	65.9
3150	81.2	78.1	79.9	81.2	80.9	79.2	78.6	79.0	77.8	79.7	83.3	82.4	86.9	89.2	90.4	95.9	94.6	82.7	61.3
4000	76.3	72.5	74.2	75.5	75.2	73.5	73.8	74.0	73.3	75.1	78.6	78.0	82.6	84.8	85.8	91.4	90.0	77.6	55.9
5000	70.9	66.7	67.9	69.1	68.8	67.6	68.7	69.2	68.6	70.2	73.6	73.3	78.0	80.1	81.1	86.6	85.2	72.5	50.2
6300	64.9	61.3	61.8	62.9	62.5	61.9	63.2	64.0	63.5	65.1	68.3	68.3	73.1	75.1	76.1	81.7	80.2	67.5	44.0
8000	58.6	56.8	57.3	58.1	57.6	56.7	58.1	59.3	58.9	60.5	63.7	64.1	68.8	71.1	72.2	78.0	76.7	63.9	39.6
10000	51.6	51.9	52.4	53.2	52.4	51.3	53.0	54.1	54.0	55.8	58.8	59.5	64.2	66.8	68.1	74.1	72.9	59.9	34.4
12500	45.7	46.5	46.8	47.6	46.4	44.8	47.1	48.4	48.7	50.3	53.5	54.5	59.5	62.1	63.6	69.9	68.8	55.6	27.3
16000	38.9	40.3	40.4	41.1	39.8	38.2	40.2	41.9	42.4	44.1	47.4	48.9	54.2	57.0	58.9	65.3	64.3	50.8	17.4
20000	30.8	33.3	33.2	33.6	31.7	29.8	32.1	34.1	34.8	36.6	40.3	41.9	48.4	51.4	53.4	60.2	59.5	45.2	7.4
25000	20.9	22.9	23.4	24.0	21.7	17.7	21.3	24.4	26.2	27.0	31.6	33.9	41.3	44.8	47.0	54.5	54.4	39.2	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-9A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 1.8 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 03
AIRCRAFT CODE 73
OPERATION CODE 02033
PROFILE VERSION A
06 FEB 76

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	121.0	118.6	121.1	122.4	122.4	119.9	115.9	117.1	116.3	116.8	121.8	116.6	120.7	122.5	123.8	129.2	128.2	118.0	97.8
250	118.7	116.3	118.8	120.1	120.1	117.6	113.6	114.6	114.0	114.5	119.5	113.8	118.5	120.3	121.7	127.1	126.1	115.9	95.7
315	116.4	114.0	116.5	117.7	117.7	115.3	111.3	112.5	111.7	112.2	117.2	111.5	116.3	118.1	119.6	125.0	124.0	113.8	93.5
400	113.9	111.6	114.1	115.3	115.3	112.8	108.9	110.0	109.3	109.8	114.8	109.2	113.9	115.8	117.3	122.8	121.9	111.6	91.3
500	111.4	109.0	111.5	112.7	112.8	110.3	106.3	107.5	106.8	107.3	112.3	106.8	111.5	113.4	115.0	120.4	119.6	109.3	88.9
630	108.7	106.3	108.8	110.0	110.1	107.6	103.7	104.8	104.2	104.7	109.6	104.3	109.0	110.9	112.5	118.0	117.4	107.0	86.5
800	105.8	103.5	106.0	107.1	107.2	104.7	100.8	102.0	101.4	101.9	106.8	101.7	106.4	108.4	109.9	115.4	114.9	104.5	83.7
1000	102.7	100.4	102.9	104.1	104.1	101.7	97.8	99.0	98.4	98.9	103.8	99.0	103.7	105.7	107.2	112.7	112.2	101.8	80.6
1250	99.4	97.1	99.6	100.7	100.8	98.3	94.5	95.7	95.1	95.6	100.6	96.1	100.8	102.8	104.2	109.7	109.3	98.8	77.3
1600	95.7	93.5	95.9	97.1	97.2	94.7	90.9	92.1	91.6	92.0	97.0	92.9	97.7	99.8	101.1	106.5	106.1	95.5	73.8
2000	92.1	89.5	92.0	93.1	93.2	90.7	87.2	88.2	87.8	88.2	93.1	89.6	94.4	96.7	98.0	103.4	102.8	91.8	70.5
2500	88.2	85.1	87.5	88.6	88.7	86.3	83.1	83.9	83.5	83.9	88.8	86.1	90.8	93.1	94.3	100.0	98.9	87.7	66.5
3150	83.8	80.1	82.5	83.6	83.7	81.3	78.0	79.0	79.1	79.7	84.4	82.4	86.9	89.2	90.4	95.9	94.6	83.2	61.8
4000	78.4	74.0	76.3	77.5	77.5	75.2	73.8	74.0	74.4	75.1	79.6	78.0	82.6	84.8	85.8	91.4	90.0	78.0	56.3
5000	72.5	67.8	69.5	70.6	70.5	68.9	68.7	69.2	69.4	70.2	74.3	73.3	78.0	80.1	81.1	86.6	85.2	72.9	50.6
6300	65.9	62.0	62.9	63.9	63.6	62.8	63.2	64.0	64.0	65.1	68.8	68.3	73.1	75.1	76.1	81.7	80.2	67.7	44.2
8000	59.1	57.2	57.8	58.6	58.2	57.2	58.1	59.3	59.2	60.5	63.9	64.1	68.8	71.1	72.2	78.0	76.7	64.0	39.7
10000	51.6	51.9	52.4	53.2	52.4	51.3	53.0	54.1	54.0	55.8	58.8	59.5	64.2	66.8	68.1	74.1	72.9	59.9	34.4
12500	45.7	46.5	46.8	47.6	46.4	44.8	47.1	48.4	48.7	50.3	53.5	54.5	59.5	62.1	63.6	69.9	68.8	55.6	27.3
16000	38.9	40.3	40.4	41.1	39.8	38.2	40.2	41.9	42.4	44.1	47.4	48.9	54.2	57.0	58.9	65.3	64.3	50.8	17.4
20000	30.8	33.3	33.2	33.6	31.7	29.8	32.1	34.1	34.8	36.6	40.3	41.9	48.4	51.4	53.4	60.2	59.5	45.2	7.4
25000	20.9	22.9	23.4	24.0	21.7	17.7	21.3	24.4	26.2	27.0	31.6	33.9	41.3	44.8	47.0	54.5	54.4	39.2	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 03
AIRCRAFT CODE 73
OPERATION CODE 02033
PROFILE VERSION A
06 FEB 76
PAGE F3

NOISE SOURCE/SUBJECT:
C-9A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 1.8 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	103.7	100.6	102.5	104.2	103.9	102.1	101.2	101.8	99.9	102.0	105.7	103.0	107.7	109.3	109.8	115.3	113.8	103.0	83.0
250	101.4	98.4	100.2	101.9	101.6	99.8	98.9	99.6	97.7	99.7	103.5	100.9	105.6	107.2	107.7	113.3	111.8	101.0	81.0
315	99.1	96.1	97.9	99.5	99.3	97.5	96.6	97.3	95.5	97.5	101.2	98.8	103.4	105.1	105.6	111.2	109.7	98.9	78.9
400	96.7	93.7	95.5	97.1	96.9	95.1	94.3	95.0	93.2	95.2	98.9	96.6	101.3	102.9	103.5	109.1	107.6	96.8	76.8
500	94.2	91.2	93.0	94.6	94.4	92.6	91.9	92.5	90.9	92.8	96.4	94.4	99.0	100.7	101.3	106.9	105.4	94.7	74.7
630	91.6	88.6	90.3	91.9	91.7	90.0	89.4	90.0	88.5	90.3	94.0	92.1	96.8	98.4	99.0	104.6	103.1	92.3	72.3
800	88.9	85.9	87.6	89.2	89.0	87.3	86.8	87.4	86.0	87.8	91.4	89.8	94.5	96.1	96.7	102.3	100.8	89.9	69.9
1000	86.1	83.1	84.7	86.3	86.1	84.4	84.1	84.8	83.4	85.2	88.7	87.4	92.1	93.7	94.3	99.9	98.3	87.4	67.4
1250	83.1	80.1	81.7	83.2	83.0	81.4	81.3	81.9	80.7	82.5	86.0	84.9	89.6	91.2	91.7	97.3	95.7	84.6	64.6
1600	79.9	76.9	78.5	79.9	79.7	78.2	78.4	79.0	78.0	79.7	83.1	82.3	87.0	88.6	89.0	94.6	92.9	81.7	61.7
2000	76.4	73.7	75.1	76.5	76.2	74.8	75.3	76.0	75.1	76.8	80.1	79.6	84.3	85.8	86.2	91.8	90.1	78.7	58.7
2500	72.7	70.2	71.4	72.9	72.5	71.3	72.1	72.8	72.1	73.7	77.0	76.7	81.3	82.9	83.2	88.8	86.8	75.3	55.3
3150	68.7	66.4	67.6	69.0	68.8	67.5	68.6	69.4	68.8	70.4	73.6	73.5	78.1	79.7	79.9	85.4	83.3	71.5	51.5
4000	64.3	62.4	63.4	64.8	64.6	63.6	64.9	65.7	65.3	66.8	70.0	70.0	74.6	76.1	76.2	81.7	79.3	67.4	47.4
5000	59.5	58.0	59.0	60.4	60.2	59.3	60.8	61.6	61.2	62.8	65.9	66.1	70.6	72.1	72.2	77.6	75.1	63.0	43.0
6300	54.3	53.4	54.3	55.7	55.6	54.7	56.3	57.2	56.9	58.4	61.5	61.8	66.3	67.7	67.8	73.3	70.7	58.5	38.5
8000	49.4	49.4	50.2	51.4	51.3	50.3	51.9	53.0	52.8	54.2	57.3	57.7	62.2	63.8	64.0	69.5	67.1	55.0	35.0
10000	44.4	45.1	45.9	46.8	46.7	45.6	47.3	48.5	48.4	49.7	52.7	53.3	57.9	59.5	59.8	65.5	63.2	51.3	31.3
12500	39.5	40.5	41.2	42.0	41.8	40.5	42.2	43.5	43.6	44.8	47.8	48.5	53.1	54.8	55.3	61.1	59.1	47.4	27.4
16000	34.4	35.6	36.2	36.8	36.4	35.0	36.8	38.1	38.3	39.4	42.3	43.2	47.9	49.7	50.5	56.3	54.8	43.2	23.2
20000	29.0	30.3	30.8	31.2	30.5	29.1	30.8	32.2	32.5	33.6	36.4	37.4	42.2	44.2	45.4	51.3	50.2	38.9	18.9
25000	23.4	24.6	24.9	25.1	24.2	22.8	24.5	25.8	26.3	27.3	30.0	31.2	36.1	38.4	40.2	46.0	45.6	34.5	14.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 03
AIRCRAFT CODE 73
OPERATION CODE 02033
PROFILE VERSION A
06 FEB 76
PAGE G3

NOISE SOURCE/SUBJECT:
C-9A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 1.8 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	106.3	102.6	105.1	106.6	106.7	104.2	101.2	101.8	101.2	102.0	106.8	103.0	107.7	109.3	109.8	115.3	113.8	103.6	83.6
250	104.0	100.3	102.8	104.3	104.4	101.9	98.9	99.6	99.0	99.7	104.6	100.9	105.6	107.2	107.7	113.3	111.8	101.5	81.5
315	101.7	98.0	100.5	102.0	102.1	99.0	96.6	97.3	96.8	97.5	102.3	98.8	103.4	105.1	105.6	111.2	109.7	99.5	79.5
400	99.3	95.6	98.1	99.5	99.7	97.2	94.3	95.0	94.5	95.2	100.0	96.6	101.3	102.9	103.5	109.1	107.6	97.4	77.4
500	96.8	93.1	95.6	97.0	97.2	94.7	91.9	92.5	92.2	92.8	97.6	94.4	99.0	100.7	101.3	106.9	105.4	95.2	75.2
630	94.2	90.5	93.0	94.4	94.6	92.1	89.4	90.0	89.8	90.3	95.1	92.1	96.8	98.4	99.0	104.6	103.1	92.9	72.9
800	91.5	87.8	90.3	91.6	91.8	89.4	86.8	87.4	87.3	87.8	92.6	89.8	94.5	96.1	96.7	102.3	100.8	90.5	70.5
1000	88.7	85.0	87.4	88.7	88.9	86.5	84.1	84.8	84.7	85.2	89.9	87.4	92.1	93.7	94.3	99.9	98.3	87.9	67.9
1250	85.7	82.0	84.3	85.6	85.8	83.5	81.3	81.9	82.1	82.5	87.1	84.9	89.6	91.2	91.7	97.3	95.7	85.2	65.2
1600	82.5	78.9	81.1	82.4	82.5	80.3	78.4	79.0	79.3	79.7	84.3	82.3	87.0	88.5	89.0	94.6	92.9	82.3	62.3
2000	79.1	75.6	77.7	79.0	79.0	77.0	75.3	76.0	76.4	76.8	81.3	79.6	84.3	85.8	86.2	91.8	90.1	79.2	59.2
2500	75.4	72.1	74.1	75.3	75.3	73.4	72.1	72.8	73.4	73.7	78.1	76.7	81.3	82.9	83.2	88.8	86.8	75.8	55.8
3150	71.3	68.4	70.2	71.4	71.5	69.7	68.6	69.4	70.2	70.4	74.8	73.5	78.1	79.7	79.9	85.4	83.3	72.0	52.0
4000	66.4	64.0	65.6	66.8	66.8	65.3	64.9	65.7	66.3	66.8	70.9	70.0	74.6	76.1	76.2	81.7	79.3	67.8	47.8
5000	61.1	59.2	60.6	61.8	61.9	60.5	60.8	61.6	62.0	62.8	66.6	66.1	70.6	72.1	72.2	77.6	75.1	63.3	43.3
6300	55.4	54.2	55.4	56.7	56.7	55.5	56.3	57.2	57.4	58.4	62.0	61.8	66.3	67.7	67.8	73.3	70.7	58.7	38.7
8000	49.9	49.7	50.7	51.9	51.9	50.7	51.9	53.0	53.1	54.2	57.5	57.7	62.2	63.8	64.0	69.5	67.1	55.1	35.1
10000	44.4	45.1	45.9	46.8	46.7	45.6	47.3	48.5	48.4	49.7	52.7	53.3	57.9	59.5	59.8	65.5	63.2	51.3	31.3
12500	39.5	40.5	41.2	42.0	41.8	40.5	42.2	43.5	43.6	44.8	47.8	48.5	53.1	54.8	55.3	61.1	59.1	47.4	27.4
16000	34.4	35.6	36.2	36.8	36.4	35.0	36.8	38.1	38.3	39.4	42.3	43.2	47.9	49.7	50.5	56.3	54.8	43.2	23.2
20000	29.0	30.3	30.8	31.2	30.5	29.1	30.8	32.2	32.5	33.6	36.4	37.4	42.2	44.2	45.4	51.3	50.2	38.9	18.9
25000	23.4	24.6	24.9	25.1	24.2	22.8	24.5	25.8	26.3	27.3	30.0	31.2	36.1	38.4	40.2	46.0	45.6	34.5	14.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

PNDB LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

AIRCRAFT

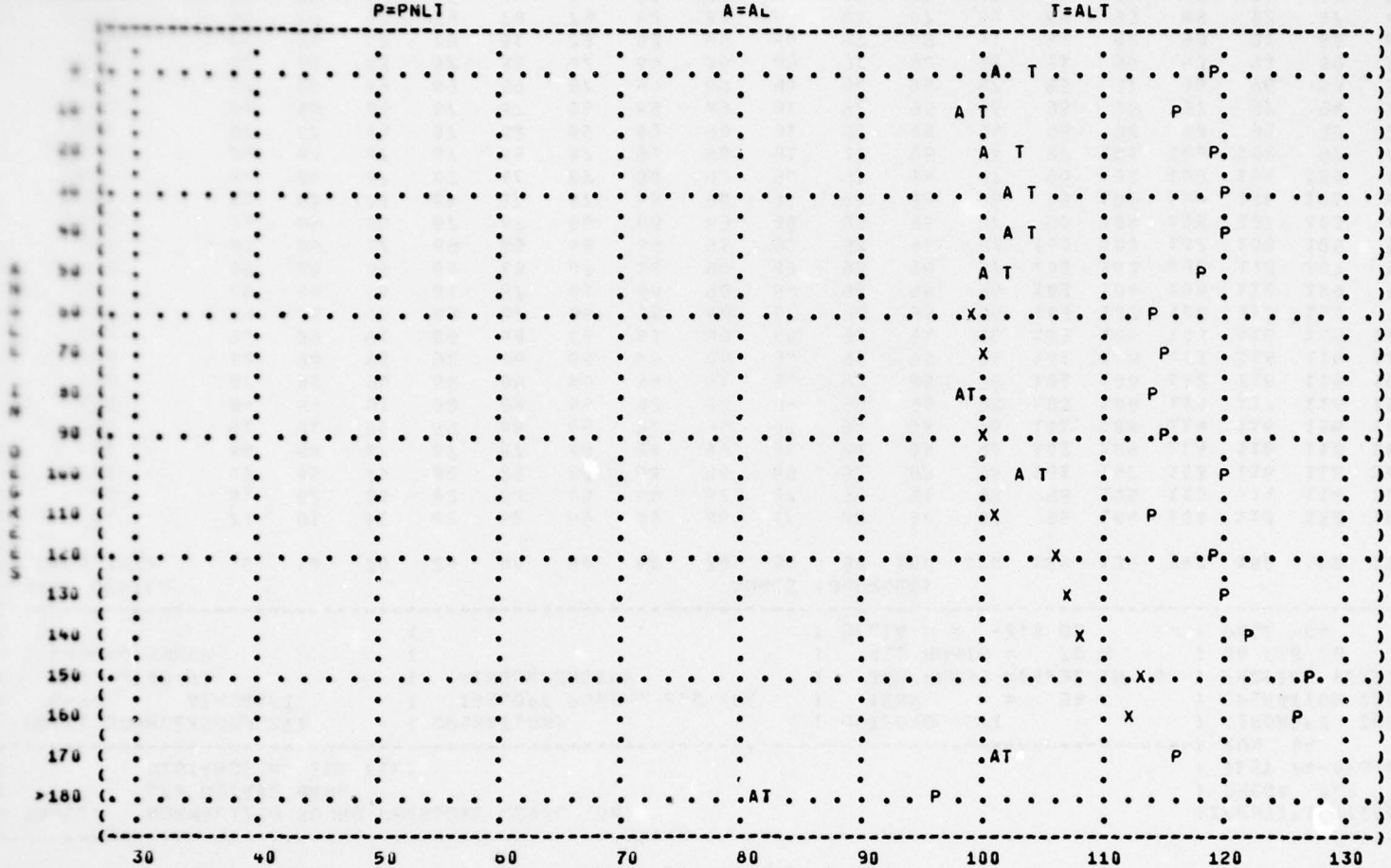
RUNUP

OPERATION:
ENGINE RUNUP, 1.6 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 03
AIRCRAFT CODE 73
OPERATION CODE 02033
PROFILE VERSION A
06 FEB 76
PAGE J3

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 04

NOISE SOURCE/SUBJECT:
C-9A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
TAKEOFF POWER, 2.0 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

AIRCRAFT CODE 73
OPERATION CODE 02030
PROFILE VERSION A
06 FEB 76
PAGE C4

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	79	81	82	82	82	85	85	86	87	88	90	92	96	104	108	113	112	100	80
63	81	82	83	82	82	85	84	87	87	90	91	93	98	105	110	114	114	104	84
80	83	85	85	86	85	87	88	88	89	91	93	96	101	107	113	116	116	107	87
100	86	88	87	87	87	88	88	89	91	94	94	98	102	109	114	116	118	106	86
125	91	91	91	89	88	89	90	91	93	94	96	98	101	108	114	116	116	103	83
160	94	94	93	90	89	89	92	93	94	93	96	98	103	108	115	117	118	104	84
200	87	90	90	89	89	88	89	91	94	93	95	97	101	108	112	118	115	105	85
250	88	90	93	90	88	88	88	88	90	91	95	96	101	106	111	118	114	105	85
315	90	89	91	89	88	88	88	89	88	91	94	96	101	105	109	116	115	103	83
400	89	88	90	89	87	85	88	88	87	90	93	95	100	103	108	113	111	98	78
500	85	88	88	88	87	85	88	90	89	92	95	96	100	104	108	112	109	95	75
630	85	88	88	88	88	87	88	90	89	93	96	97	100	103	106	110	107	92	72
800	83	85	87	89	89	88	89	91	90	93	96	98	100	103	107	108	105	90	70
1000	81	85	85	87	87	86	88	89	90	93	96	97	98	104	105	107	103	88	68
1250	81	83	85	85	87	87	88	90	90	93	96	96	98	102	104	106	101	86	66
1600	82	84	87	87	88	87	90	90	90	93	96	97	98	102	103	104	100	85	65
2000	88	88	87	87	89	87	90	90	91	92	96	95	97	101	100	102	97	80	60
2500	87	87	86	87	86	85	89	90	91	92	95	94	96	98	98	99	95	79	59
3150	86	86	86	87	87	86	89	89	91	92	95	96	96	98	97	97	94	78	58
4000	87	88	89	89	89	87	90	89	93	94	96	97	95	97	96	96	93	75	55
5000	82	80	83	82	82	82	84	85	89	91	92	93	91	95	93	93	89	71	51
6300	81	78	82	79	81	79	83	84	86	87	89	91	90	92	90	92	88	67	47
8000	80	79	82	79	79	79	80	82	84	85	87	89	88	90	88	92	87	65	45
10000	78	75	80	75	76	75	77	80	82	81	80	87	84	86	82	90	82	60	40
OVERALL	101	101	102	101	101	100	102	103	104	105	108	110	113	118	123	127	126	114	94

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-9A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
TAKEOFF POWER, 2.0 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 04
AIRCRAFT CODE 73
OPERATION CODE 02030
PROFILE VERSION A
06 FEB 76
PAGE D4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	113.8	114.5	115.7	115.4	115.3	114.0	116.3	116.9	118.9	120.2	122.6	123.9	124.7	128.3	130.5	134.1	131.7	119.0	98.8
250	111.5	112.2	113.4	113.1	113.0	111.7	114.1	114.7	116.6	117.9	120.3	121.6	122.4	126.1	128.3	132.0	129.6	116.9	96.7
315	109.1	109.9	111.0	110.8	110.7	109.3	111.7	112.4	114.2	115.5	118.0	119.2	120.2	123.9	126.2	129.9	127.5	114.8	94.6
400	106.6	107.4	108.5	108.3	108.2	106.9	109.2	110.0	111.7	113.0	115.6	116.8	117.8	121.6	124.0	127.7	125.4	112.7	92.4
500	104.2	104.9	106.0	105.7	105.6	104.4	106.7	107.6	109.1	110.5	113.1	114.2	115.4	119.2	121.6	125.5	123.2	110.5	90.1
630	101.6	102.2	103.2	103.0	102.9	101.7	104.1	105.0	106.4	107.7	110.5	111.6	112.8	116.8	119.2	123.0	120.9	108.0	87.6
800	98.8	99.3	100.3	100.1	100.0	98.9	101.3	102.3	103.5	104.8	107.7	108.8	110.1	114.2	116.6	120.5	118.5	105.6	84.9
1000	95.9	96.4	97.2	97.0	96.9	96.0	98.3	99.4	100.3	101.8	104.7	105.8	107.3	111.5	114.0	117.9	116.0	103.0	82.2
1250	92.8	93.4	93.7	93.7	93.8	92.9	95.0	95.3	97.1	98.5	101.6	102.6	104.3	108.6	111.2	115.0	113.0	100.1	79.1
1500	89.5	90.1	90.4	90.3	90.5	89.6	91.8	92.9	93.7	95.1	98.4	99.1	101.1	105.5	108.4	111.9	109.9	96.9	75.8
2000	86.0	86.6	86.8	86.7	87.0	86.0	88.2	89.3	89.9	91.4	94.8	95.6	97.7	102.1	105.3	108.8	106.5	93.4	72.2
2500	82.8	82.7	82.9	82.7	83.1	82.2	84.4	85.3	85.9	87.6	91.0	91.8	94.0	98.4	101.7	105.1	102.7	89.4	68.3
3150	77.7	78.4	78.6	78.4	78.9	77.9	80.1	81.0	81.5	83.4	86.8	87.7	89.9	94.3	97.7	101.0	98.5	84.9	63.7
4000	72.7	73.5	73.9	73.9	74.1	73.2	75.5	76.3	76.7	78.8	82.2	83.1	85.4	89.7	93.1	96.5	93.9	79.9	58.4
5000	67.4	68.3	69.0	69.1	69.1	68.5	70.5	71.6	71.0	73.8	77.3	78.4	80.8	85.0	88.3	91.7	89.1	75.0	53.1
6300	61.5	63.1	63.8	64.0	64.0	63.4	65.1	66.4	66.3	68.6	71.9	73.4	75.9	80.1	83.5	86.8	84.1	70.0	47.3
8000	56.5	58.7	59.4	59.4	59.3	58.8	60.5	61.9	61.7	63.9	67.4	68.9	71.6	75.9	79.6	83.1	80.5	66.4	42.8
10000	51.5	53.9	54.6	54.4	54.4	53.7	55.4	56.9	56.8	59.2	62.6	64.1	67.0	71.5	75.6	79.2	76.7	62.5	37.4
12500	48.0	48.7	49.3	49.1	48.9	47.7	49.7	51.2	51.0	53.9	57.4	58.7	62.3	66.3	71.3	75.0	72.6	58.2	31.4
16000	43.1	42.8	43.4	43.1	42.2	40.9	43.6	45.0	44.7	47.8	51.5	53.3	57.1	62.0	66.6	70.4	68.1	53.5	23.4
20000	33.2	35.8	36.5	35.9	34.6	33.0	36.4	38.1	37.7	41.1	44.9	47.0	51.3	56.4	61.5	65.4	63.2	47.9	13.0
25000	25.1	26.8	26.1	27.2	25.2	22.7	27.3	28.8	28.7	32.6	37.3	39.7	44.5	50.2	55.8	59.9	57.8	42.0	2.6

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-9A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
TAKEOFF POWER, 2.0 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 04
AIRCRAFT CODE 73
OPERATION CODE 02030
PROFILE VERSION A
06 FEB 76
PAGE E4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	115.0	116.0	117.2	116.9	116.9	114.0	117.4	116.9	118.9	120.2	122.6	123.9	124.7	128.3	130.5	134.1	131.7	119.0	98.8
250	112.7	113.7	114.9	114.6	114.6	111.7	115.1	114.7	116.6	117.9	120.3	121.6	122.4	126.1	128.3	132.0	129.6	116.9	96.7
315	110.3	111.4	112.5	112.3	112.3	109.3	112.7	112.4	114.2	115.5	118.0	119.2	120.2	123.9	126.2	129.9	127.5	114.8	94.6
400	107.9	108.9	110.1	109.8	109.8	106.9	110.3	110.0	111.7	113.0	115.6	116.8	117.8	121.6	124.0	127.7	125.4	112.7	92.4
500	105.4	106.4	107.5	107.2	107.2	104.4	107.7	107.6	109.1	110.5	113.1	114.2	115.4	119.2	121.6	125.5	123.2	110.5	90.1
630	102.8	103.6	104.7	104.5	104.5	101.7	105.1	105.0	106.4	107.7	110.5	111.6	112.8	116.8	119.2	123.0	120.9	108.0	87.6
800	100.1	100.8	101.8	101.6	101.6	98.9	102.3	102.3	103.5	104.8	107.7	108.8	110.1	114.2	116.6	120.5	118.5	105.6	84.9
1000	97.2	97.9	98.7	98.5	98.4	96.0	99.3	99.4	100.3	101.8	104.7	105.8	107.3	111.5	114.0	117.9	116.0	103.0	82.2
1250	94.1	94.9	95.3	95.2	95.4	92.9	96.1	96.3	97.1	98.5	101.6	102.6	104.3	108.6	111.2	115.0	113.0	100.1	79.1
1600	90.8	91.6	91.9	91.9	92.1	89.6	92.8	92.9	93.7	95.1	98.4	99.1	101.1	105.5	108.4	111.9	109.9	96.9	75.8
2000	87.2	88.1	88.3	88.2	88.6	86.0	89.3	89.3	89.9	91.4	94.8	95.6	97.7	102.1	105.3	108.8	106.5	93.4	72.2
2500	83.3	84.1	84.4	84.2	84.7	82.2	85.4	85.3	85.9	87.6	91.0	91.8	94.0	98.4	101.7	105.1	102.7	89.4	68.3
3150	78.9	79.8	80.1	79.9	80.5	77.9	81.1	81.0	81.5	83.4	86.8	87.7	89.9	94.3	97.7	101.0	98.5	84.9	63.7
4000	73.7	74.7	75.1	75.1	75.4	73.2	76.3	76.3	76.7	78.8	82.2	83.1	85.4	89.7	93.1	96.5	93.9	79.9	58.4
5000	68.2	69.2	69.9	70.1	70.0	68.5	71.2	71.6	71.6	73.8	77.3	78.4	80.8	85.0	88.3	91.7	89.1	75.0	53.1
6300	62.6	63.7	64.4	64.7	64.6	63.4	65.5	65.4	66.3	68.6	71.9	73.4	75.9	80.1	83.5	86.8	84.1	70.0	47.3
8000	56.7	59.0	59.7	59.7	59.7	58.8	60.7	61.9	61.7	63.9	67.4	68.9	71.6	75.9	79.6	83.1	80.5	66.4	42.8
10000	51.5	53.9	54.6	54.4	54.4	53.7	55.4	56.9	56.6	59.2	62.6	64.1	67.0	71.5	75.6	79.2	76.7	62.5	37.4
12500	46.0	48.7	49.3	49.1	48.9	47.7	49.7	51.2	51.0	53.9	57.4	58.7	62.3	66.9	71.3	75.0	72.6	58.2	31.4
16000	40.1	42.6	43.4	43.1	42.2	40.9	43.6	45.0	44.7	47.8	51.5	53.3	57.1	62.6	66.6	70.4	68.1	53.5	23.4
20000	33.2	35.8	36.5	35.9	34.6	33.0	36.4	38.1	37.7	41.1	44.9	47.0	51.3	56.4	61.5	65.4	63.2	47.9	13.0
25000	25.1	26.6	28.1	27.2	25.2	22.7	27.3	28.8	28.7	32.6	37.3	39.7	44.5	50.2	55.8	59.9	57.8	42.3	2.6

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
G-9A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
TAKEOFF POWER, 2.0 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 04
AIRCRAFT CODE 73
OPERATION CODE 02030
PROFILE VERSION A
06 FEB 76
PAGE F4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	99.0	99.7	100.5	100.6	100.8	99.7	102.0	102.9	103.9	105.6	108.7	109.5	110.8	114.8	117.1	120.5	117.8	105.1	85.1
250	96.8	97.5	98.3	98.4	98.6	97.5	99.8	100.8	101.7	103.4	106.5	107.3	108.7	112.6	115.1	118.4	115.7	103.0	83.0
315	94.5	95.3	96.1	96.2	96.3	95.3	97.6	98.5	99.4	101.2	104.3	105.0	106.5	110.5	113.0	116.3	113.7	101.0	81.0
400	92.2	93.0	93.8	93.9	94.1	93.0	95.3	96.3	97.1	98.9	102.0	102.7	104.3	108.3	110.8	114.2	111.6	98.9	78.9
500	89.8	90.7	91.4	91.6	91.7	90.7	93.0	93.9	94.7	96.5	99.6	100.4	102.1	106.1	108.7	112.1	109.4	96.7	76.7
630	87.3	88.2	89.0	89.1	89.3	88.3	90.6	91.5	92.2	94.1	97.2	98.0	99.7	103.8	106.4	109.8	107.2	94.5	74.5
800	84.8	85.7	86.5	86.7	86.8	85.8	88.1	89.0	89.6	91.5	94.8	95.5	97.4	101.4	104.1	107.5	104.8	92.1	72.1
1000	82.2	83.1	83.9	84.1	84.2	83.2	85.5	86.5	86.9	88.9	92.2	93.0	94.9	98.9	101.7	105.1	102.4	89.6	69.6
1250	79.4	80.4	81.2	81.4	81.6	80.6	82.8	83.8	84.1	86.2	89.5	90.3	92.3	96.4	99.1	102.5	99.8	86.9	66.9
1600	76.5	77.6	78.4	78.6	78.8	77.8	80.0	81.0	81.2	83.4	86.7	87.6	89.7	93.7	96.5	99.8	97.1	84.0	64.0
2000	73.4	74.7	75.5	75.8	75.9	74.9	77.1	78.2	78.2	80.5	83.9	84.7	86.9	90.9	93.8	97.1	94.3	81.1	61.1
2500	70.0	71.5	72.3	72.6	72.8	71.8	73.9	75.1	75.0	77.4	80.8	81.7	83.9	88.0	90.8	94.0	91.1	77.7	57.7
3150	66.4	68.1	68.9	69.3	69.5	68.5	70.6	71.8	71.6	74.2	77.5	78.4	80.7	84.7	87.5	90.5	87.6	73.9	53.9
4000	62.3	64.3	65.1	65.6	65.8	65.0	66.9	68.1	67.9	70.5	73.9	74.9	77.1	81.1	83.9	86.8	83.7	69.8	49.8
5000	57.9	60.0	60.9	61.5	61.8	60.9	62.8	64.1	63.9	66.5	69.8	70.9	73.0	77.1	79.9	82.6	79.4	65.4	45.4
6300	53.1	55.5	56.4	57.1	57.3	56.5	58.4	59.7	59.4	62.1	65.4	66.5	68.7	72.8	75.6	78.2	75.0	60.8	40.8
8000	49.1	51.5	52.4	53.0	53.1	52.3	54.1	55.4	55.1	57.9	61.1	62.3	64.6	68.7	71.7	74.5	71.4	57.3	37.3
10000	44.8	47.3	48.1	48.6	48.6	47.7	49.5	50.9	50.4	53.3	56.5	57.8	60.2	64.2	67.5	70.4	67.5	53.6	33.6
12500	40.3	42.7	43.5	43.9	43.7	42.8	44.6	45.9	45.4	48.2	51.4	52.8	55.4	59.4	62.9	66.0	63.3	49.6	29.6
16000	35.6	37.7	38.5	38.7	38.3	37.3	39.2	40.5	39.9	42.8	45.9	47.4	50.2	54.1	57.9	61.3	58.7	45.4	25.4
20000	30.5	32.4	33.0	33.0	32.5	31.4	33.3	34.6	34.0	36.8	40.0	41.5	44.5	48.5	52.6	56.3	53.9	41.0	21.0
25000	25.0	26.6	27.2	26.9	26.1	25.1	27.0	28.3	27.7	30.4	33.5	35.1	38.5	42.6	47.1	50.9	48.9	36.4	16.4

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-9A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
TAKEOFF POWER, 2.0 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 04
AIRCRAFT CODE 73
OPERATION CODE 02030
PROFILE VERSION A
06 FEB 76
PAGE G4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	100.2	101.2	102.1	102.1	102.4	99.7	103.1	102.9	103.9	105.6	108.7	109.5	110.8	114.8	117.1	120.5	117.8	105.1	85.1
250	98.0	99.0	99.8	99.9	100.2	97.5	100.9	100.8	101.7	103.4	106.5	107.3	108.7	112.6	115.1	118.4	115.7	103.0	83.0
315	95.8	96.8	97.6	97.7	97.9	95.3	98.6	98.5	99.4	101.2	104.3	105.0	106.5	110.5	113.0	116.3	113.7	101.0	81.0
400	93.4	94.5	95.3	95.4	95.7	93.0	96.4	96.3	97.1	98.9	102.0	102.7	104.3	108.3	110.8	114.2	111.6	98.9	78.9
500	91.0	92.1	93.0	93.1	93.3	90.7	94.0	93.9	94.7	96.5	99.6	100.4	102.1	106.1	108.7	112.1	109.4	96.7	76.7
630	88.6	89.7	90.5	90.7	90.9	88.3	91.6	91.5	92.2	94.1	97.2	98.0	99.7	103.8	106.4	109.8	107.2	94.5	74.5
800	86.0	87.2	88.0	88.2	88.4	85.8	89.1	89.0	89.6	91.5	94.8	95.5	97.4	101.4	104.1	107.5	104.8	92.1	72.1
1000	83.4	84.6	85.4	85.6	85.8	83.2	86.5	86.5	86.9	88.9	92.2	93.0	94.9	98.9	101.7	105.1	102.4	89.6	69.6
1250	80.6	81.9	82.7	82.9	83.2	80.6	83.8	83.8	84.1	86.2	89.5	90.3	92.3	96.4	99.1	102.5	99.8	86.9	66.9
1600	77.7	79.1	79.9	80.2	80.4	77.8	81.0	81.0	81.2	83.4	86.7	87.6	89.7	93.7	96.5	99.8	97.1	84.0	64.0
2000	74.7	76.1	77.0	77.3	77.5	74.9	78.1	78.2	78.2	80.5	83.9	84.7	86.9	90.9	93.8	97.1	94.3	81.1	61.1
2500	71.3	73.0	73.8	74.2	74.4	71.8	75.0	75.1	75.0	77.4	80.8	81.7	83.9	88.0	90.8	94.0	91.1	77.7	57.7
3150	67.6	69.5	70.4	70.8	71.1	68.5	71.6	71.8	71.6	74.2	77.5	78.4	80.7	84.7	87.5	90.5	87.6	73.9	53.9
4000	63.3	65.4	66.4	66.8	67.1	65.0	67.7	68.1	67.9	70.5	73.9	74.9	77.1	81.1	83.9	86.8	83.7	69.8	49.8
5000	58.6	60.9	61.8	62.4	62.7	60.9	63.4	64.1	63.9	66.5	69.8	70.9	73.0	77.1	79.9	82.6	79.4	65.4	45.4
6300	53.6	56.1	57.1	57.7	58.0	56.5	58.8	59.7	59.4	62.1	65.4	66.5	68.7	72.8	75.6	78.2	75.0	60.8	40.8
8000	49.3	51.8	52.7	53.3	53.5	52.3	54.3	55.4	55.1	57.9	61.1	62.3	64.6	68.7	71.7	74.5	71.4	57.3	37.3
10000	44.8	47.3	48.1	48.6	48.6	47.7	49.5	50.9	50.4	53.3	56.5	57.8	60.2	64.2	67.5	70.4	67.5	53.6	33.6
12500	40.3	42.7	43.5	43.9	43.7	42.8	44.6	45.9	45.4	48.2	51.4	52.8	55.4	59.4	62.9	66.0	63.3	49.6	29.6
16000	35.6	37.7	38.5	38.7	38.3	37.3	39.2	40.5	39.9	42.8	45.9	47.4	50.2	54.1	57.9	61.3	58.7	45.4	25.4
20000	30.5	32.4	33.0	33.0	32.5	31.4	33.3	34.6	34.0	36.8	40.0	41.5	44.5	48.5	52.6	56.3	53.9	41.0	21.0
25000	25.0	26.6	27.2	26.9	26.1	25.1	27.0	28.3	27.7	30.4	33.5	35.1	38.5	42.6	47.1	50.9	48.9	36.4	16.4

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

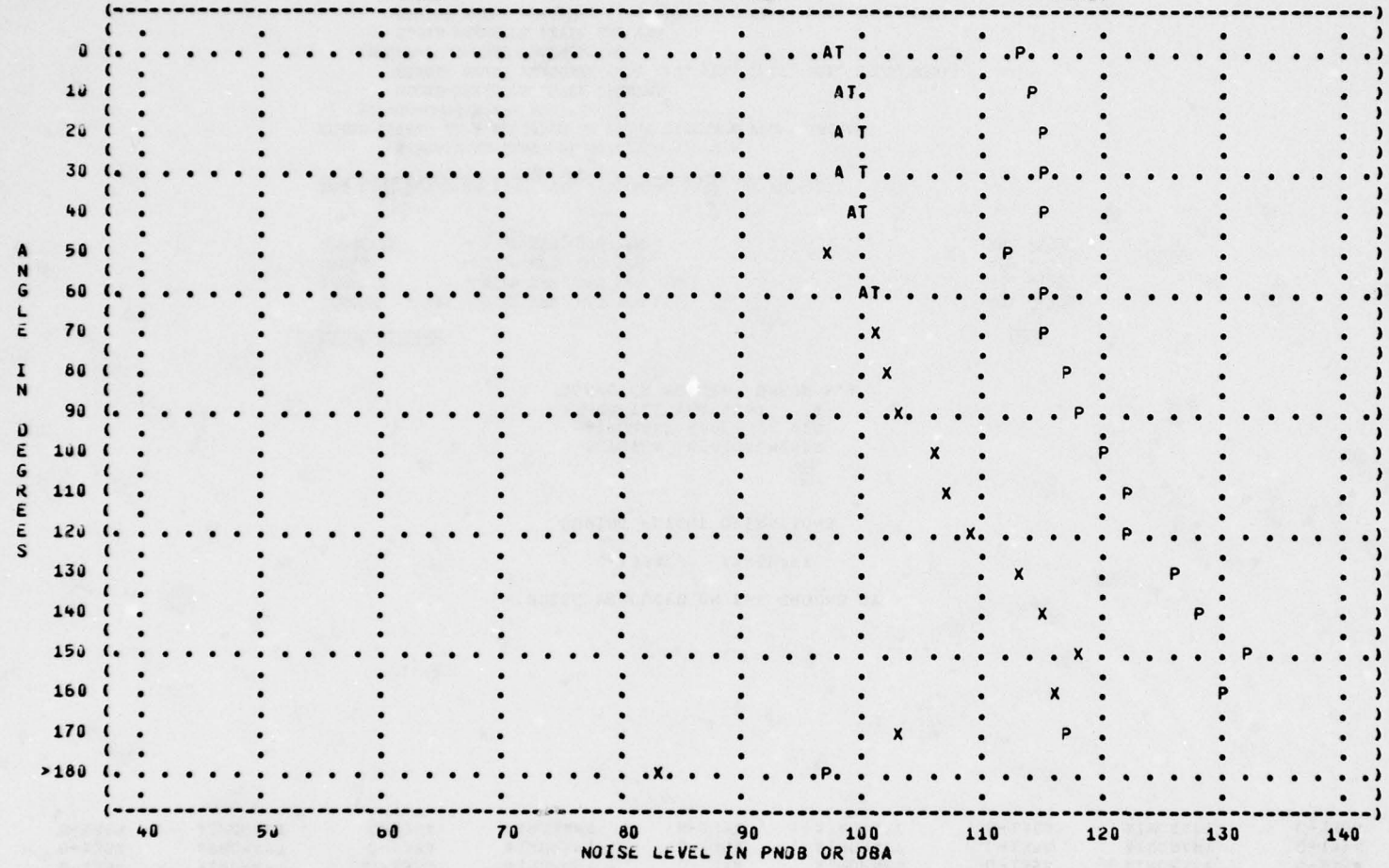
NOISE SOURCE/SUBJECT:
C-9A AIRCRAFT
ENG. JT8D-9A
GROUND RUNUP

OPERATION:
TAKEOFF POWER, 2.0 EPR
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-073-001
RUN 04
AIRCRAFT CODE 73
OPERATION CODE 02030
PROFILE VERSION A
06 FEB 76
PAGE J4

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAF C-135A AIRCRAFT C-135A AIRCRAFT C-135A AIRCRAFT C-135A AIRCRAFT C-135A AIRCRAFT C-135A USAF

NOISE PRODUCED ON THE GROUND BY

C-135A AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 026
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

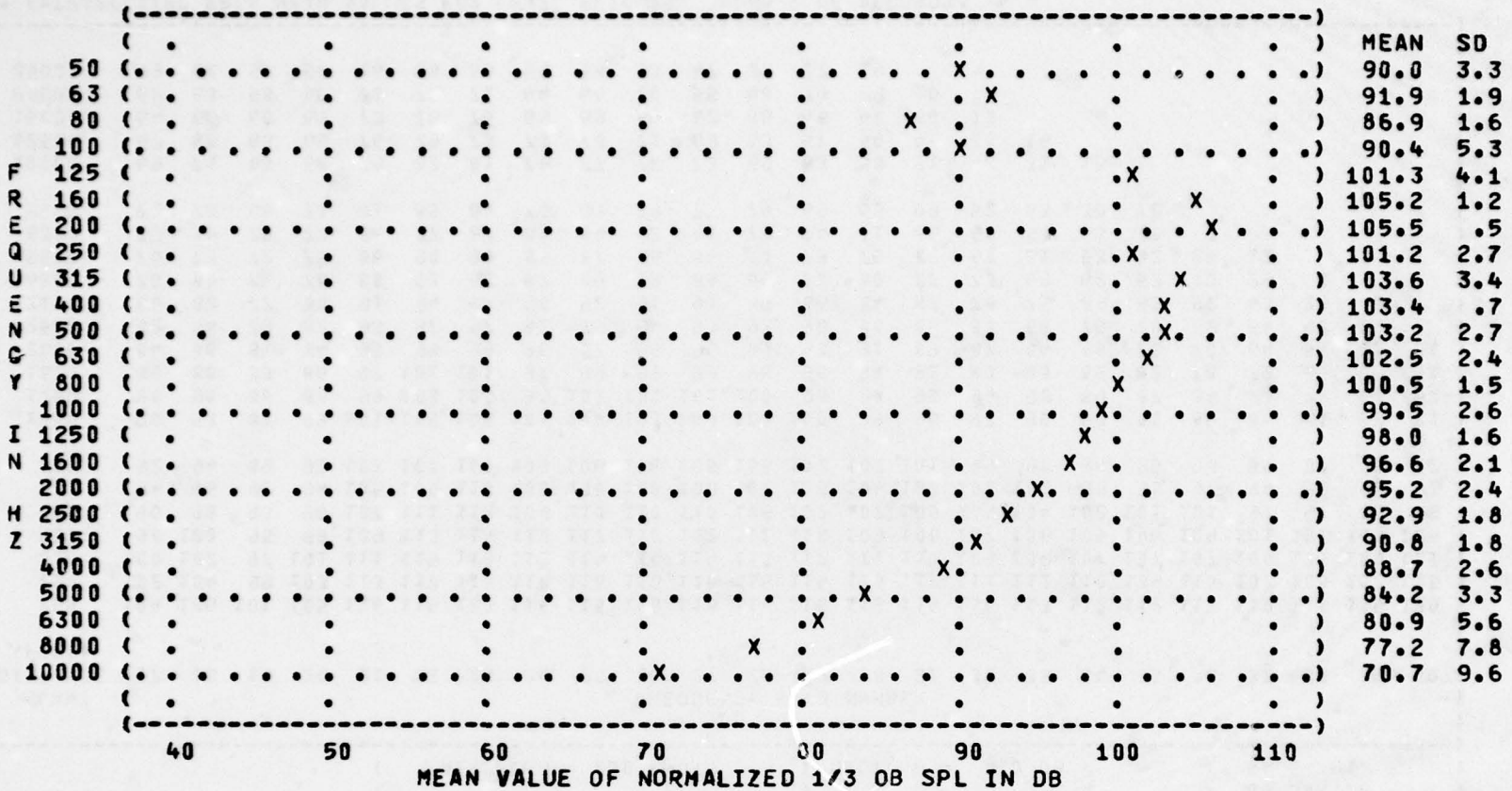
POWER SETTING		PAGE
TAKEOFF - WET	- 2.85 EPR, 96% RPM	471 - 479
TAKEOFF	- 2.45 EPR, 96% RPM	480 - 488
CRUISE	- 1.50 EPR, 86% RPM	489 - 497
APPROACH	- 1.75 EPR, 90% RPM	498 - 506

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
AIR-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF C-135A AIRCRAFT C-135A AIRCRAFT C-135A AIRCRAFT C-135A AIRCRAFT C-135A AIRCRAFT C-135A USAF



C-135A TAKEOFF POWER WET % RPM 2.85 EPR

AIRSPEED = 200 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 4

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-026-102-090176

PNLT = 121.1 PNDB
PNL = 120.5 PNDB
ALT = 109.7 DBA
AL = 109.1 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 026
OPS CODE: 102
PROFILE VER: A
09 JAN 76
PAGE H1

AIRCRAFT: C-135A

OPERATION:
TAKEOFF POWER WET
96 % RPM 2.85 EPR
AIRSPEED = 200 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	104	106	101	105	116	119	120	116	118	118	118	118	116	115	114	114	113	112	112	113	110	111	115	120
250	102	104	99	103	113	117	118	114	116	116	116	116	114	113	112	111	111	110	109	110	107	108	112	115
315	100	102	97	101	111	115	116	112	114	114	114	113	112	111	110	109	109	107	107	107	104	105	108	111
400	98	100	95	98	109	113	114	110	112	112	112	111	110	109	108	107	106	105	104	104	101	101	103	105
500	96	98	93	96	107	111	112	108	110	110	110	109	107	107	105	104	104	102	101	101	97	97	98	99
630	94	96	91	94	105	109	110	105	108	108	108	107	105	104	103	102	101	99	98	97	94	92	92	91
800	92	94	89	92	103	107	108	103	106	106	105	105	103	102	101	99	98	96	95	93	89	87	85	82
1000	90	92	87	90	101<	105	106	101	104	103	103	102	100	99	98	97	95	93	91	89	84	81	77	71
1250	88	90	85	88	99	103	103	99	101	101	101	100	98	97	95	94	92	89	87	84	78	74	67	57
1600	86	88	83	86	97	101	101	97	99	99	99	98	95	94	92	90	88	85	82	78	72	65	56	41
2000	84	86	81	84	95	99	99	95	97	96	96	95	93	91	89	87	84	80	76	70	64	54	41	21
2500	82	84	79	82	93	97	97	92	95	94	93	92	90	88	85	83	80	75	70	62	54	42	24	
3150	80	82	77	80	91	94	94	90	92	91	91	89	86	84	82	78	75	69	62	52	43	26	3	
4000	78	80	74	78	88	92	92	87	89	89	88	86	83	80	77	73	69	62	53	40	29	6		
5000	75	77	72	75	86	90	90	85	87	86	84	83	79	76	72	67	61	53	42	25	12			
6300	73	75	70	73	84	87	87	82	84	82	81	79	74	71	66	60	53	43	28	7				
8000	71	73	68	71	81	85	84	79	81	79	77	74	69	65	59	52	43	30	12					
10000	69	71	65	68	79	82	81	76	77	75	73	69	63	58	51	42	31	15						
12500	67	68	63	66	76	79	78	73	73	71	68	63	57	50	41	30	16							
16000	64	66	60	63	73	76	75	69	69	66	62	56	48	40	30	15								
20000	62	63	58	60	70	72	71	64	64	60	55	48	39	29	15									
25000	59	60	55	57	66	68	66	59	58	53	47	39	27	14										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-135A

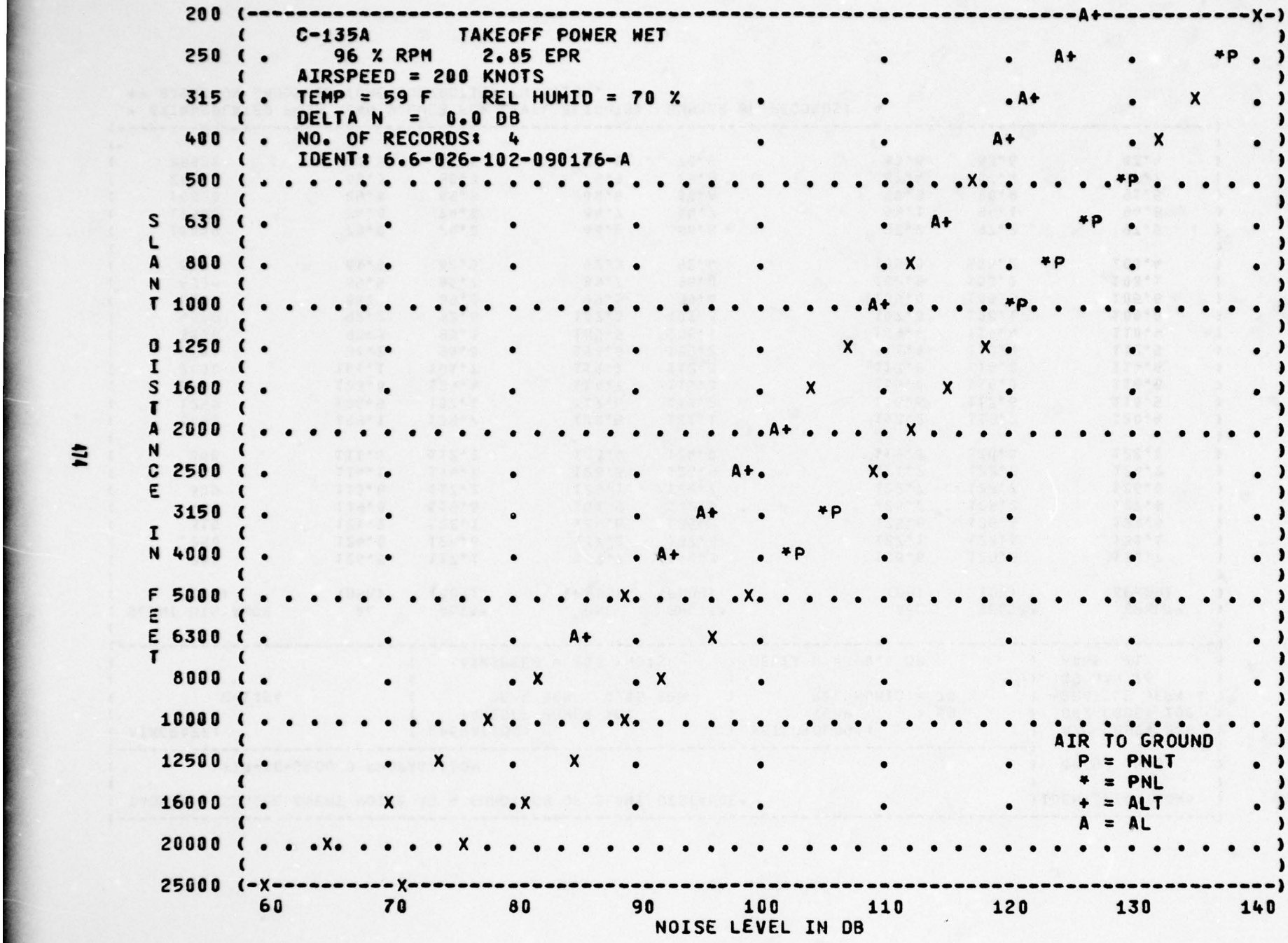
OPERATION:
TAKEOFF POWER WET
96 % RPM 2.85 EPR
AIRSPEED = 200 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 026
OPS CODE: 102
PROFILE VER: A
09 JAN 76
PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	126.5	127.1	139.7	140.3	128.6	129.6	132.7
250	124.0	124.6	137.2	137.8	127.1	128.1	131.1
315	121.5	122.1	134.6	135.2	125.6	126.6	129.5
400	119.0	119.6	131.9	132.5	124.2	125.2	127.8
500	116.6	117.2	129.1	129.7	122.7	123.7	126.0
630	114.1	114.7	126.3	126.9	121.2	122.2	124.2
800	111.6	112.2	123.4	124.0	119.8	120.8	122.3
1000	109.1	109.7	120.5	121.1	118.2	119.2	120.4
1250	106.5	107.1	117.6	118.2	116.6	117.6	118.5
1600	103.8	104.4	114.7	115.3	115.0	116.0	116.6
2000	101.1	101.7	111.7	112.3	113.2	114.2	114.6
2500	98.2	98.8	108.6	109.2	111.4	112.4	112.5
3150	95.3	95.8	105.5	106.1	109.4	110.4	110.4
4000	92.2	92.6	102.3	102.8	107.3	108.1	108.0
5000	88.9	89.2	99.1	99.4	105.0	105.6	105.6
6300	85.5	85.7	95.7	96.0	102.6	103.0	103.1
8000	81.9	82.0	92.3	92.4	100.0	100.2	100.4
10000	78.0	78.0	88.6	88.6	97.2	97.2	97.5
12500	74.0	74.0	84.7	84.7	94.1	94.1	94.6
16000	69.8	69.8	80.6	80.6	90.9	90.9	91.5
20000	65.3	65.3	75.8	75.8	87.4	87.4	87.7
25000	60.5	60.5	70.5	70.5	83.6	83.6	83.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-135A TAKEOFF POWER WET
96 % RPM 2.85 EPR
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-026-102-090176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

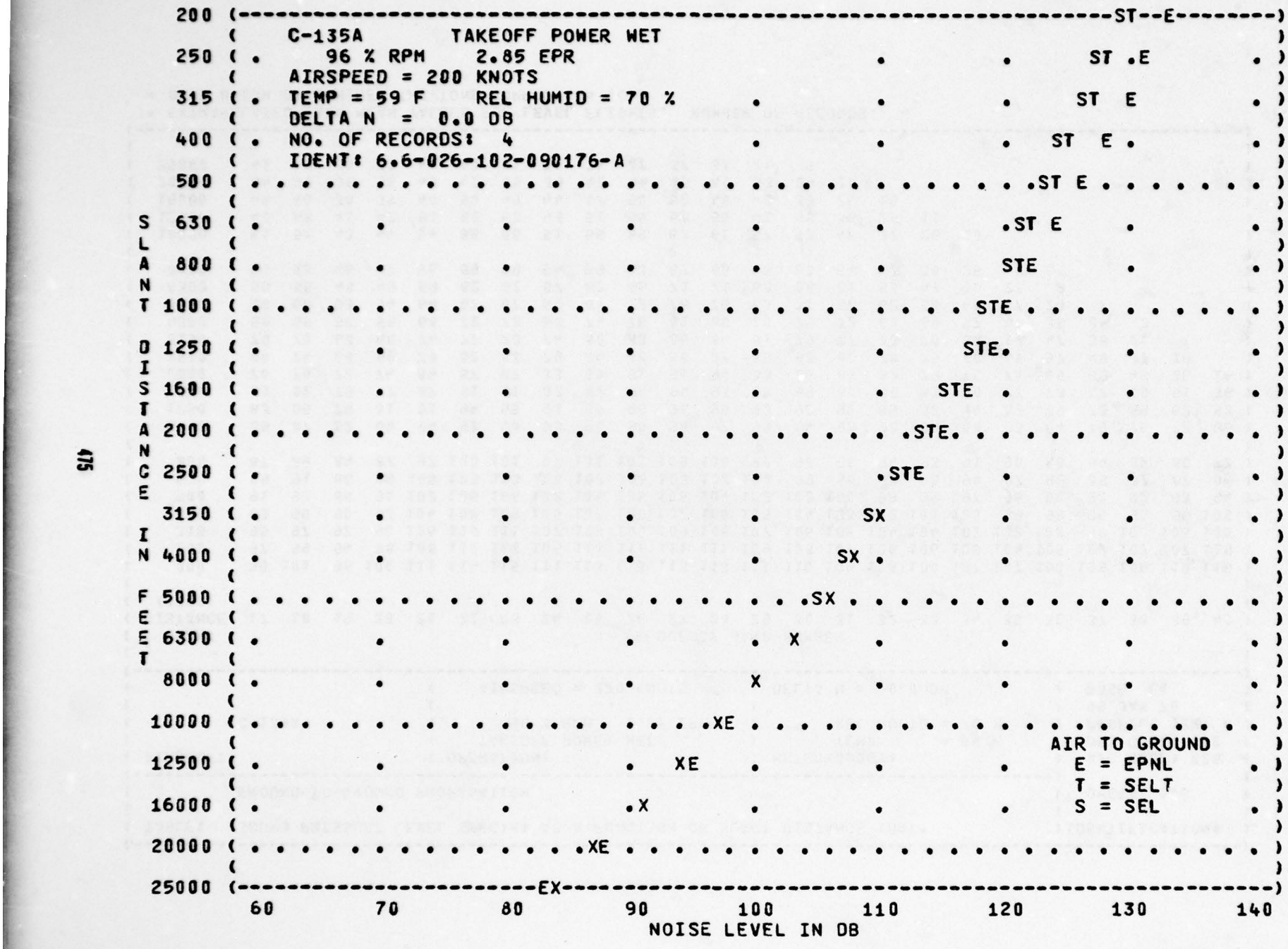

C-135A TAKEOFF POWER WET
96 % RPM 2.85 EPR
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-026-102-090176-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-135A

OPERATION:
TAKEOFF POWER WET
96 % RPM 2.85 EPR
AIRSPEED = 200 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 026
OPS CODE: 102
PROFILE VER: A
09 JAN 76
PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	99	101	96	100	111	114	115	111	113	113	113	113	111	110	109	109	108	107	107	108	105	106	110	115
250	97	99	94	98	108	112	113	109	111	111	111	111	109	108	107	106	106	105	104	105	102	103	107	110
315	95	97	92	96	106	110	111	107	109	109	109	108	107	106	105	104	104	102	102	102	99	100	103	106
400	93	95	90	93	104	108	109	105	107	107	107	106	105	104	103	102	101	100	99	99	96	96	98	100
500	91	93	88	91	102	106	106	102	105	105	105	104	102	102	100	99	99	97	96	96	92	92	93	94
630	89	91	86	89	100	103	103	100	103	103	103	102	100	99	98	97	96	94	93	92	89	87	87	86
800	87	89	84	87	97	100	101	97	101	101	100	100	98	97	96	94	93	91	90	88	84	82	80	77
1000	85	87	82	84	94<	97	98	94	98	98	98	97	95	94	93	92	90	88	86	84	79	76	72	66
1250	83	85	79	81	91	94	95	91	95	96	96	95	93	92	90	89	87	84	82	79	73	69	62	52
1600	81	82	75	77	87	91	91	87	92	94	94	93	90	89	87	85	83	80	77	73	67	60	51	36
2000	78	78	72	74	84	87	87	83	88	91	91	90	88	86	84	82	79	75	71	65	59	49	36	16
2500	74	74	68	69	79	82	83	79	84	88	88	87	85	83	80	78	75	70	65	57	49	37	19	
3150	70	70	63	64	74	77	78	74	80	83	85	84	81	79	77	73	70	64	57	47	38	21		
4000	66	65	57	59	68	72	72	68	74	78	81	80	78	75	72	68	64	57	48	35	24	3		
5000	60	60	53	54	64	67	67	62	68	72	76	76	73	71	67	62	56	48	37	20	7			
6300	55	55	48	49	59	62	62	57	62	66	71	71	68	66	61	55	48	38	23	2				
8000	53	53	46	47	56	59	59	54	59	63	67	66	63	60	54	47	38	25	7					
10000	51	51	43	44	54	56	56	51	55	59	63	61	57	53	46	37	26	10						
12500	49	48	41	42	51	53	53	48	51	55	58	55	51	45	36	25	11							
16000	46	46	38	39	48	50	49	44	47	50	52	48	42	35	25	10								
20000	44	43	36	36	45	47	45	39	42	44	45	40	33	24	10									
25000	41	40	33	33	41	43	41	34	36	37	37	31	21	9										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

AD-A053 700 AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB OHIO F/G 1/2
COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS. VO--ETC(U)
NOV 77 J D SPEAKMAN, R G POWELL, R A LEE

UNCLASSIFIED AMRL-TR-73-110-VOL-2 NL

6 OF 8
AD A053700

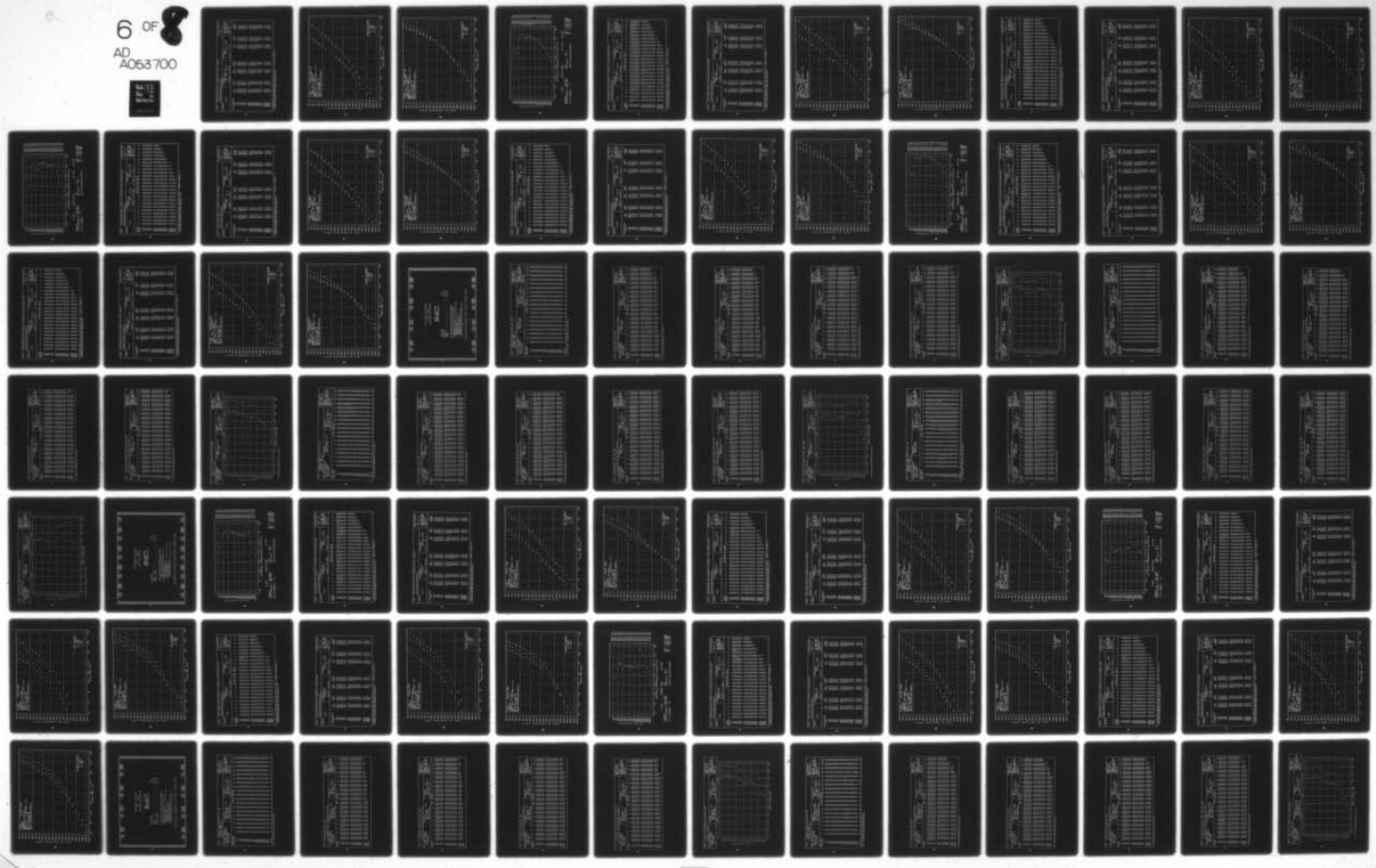


TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-135A

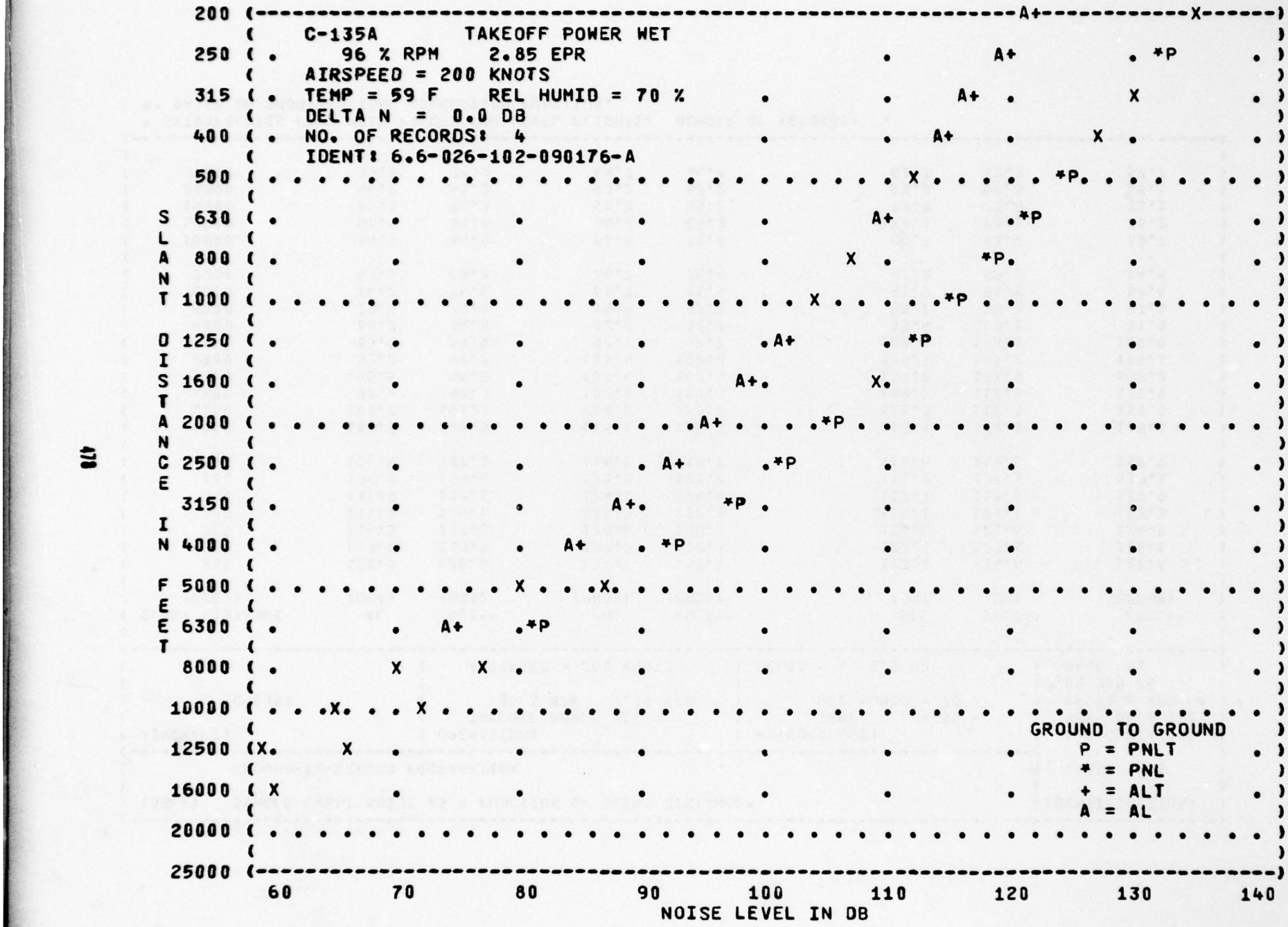
OPERATION:
TAKEOFF POWER WET
96 % RPM 2.85 EPR
AIRSPEED = 200 KNOTS

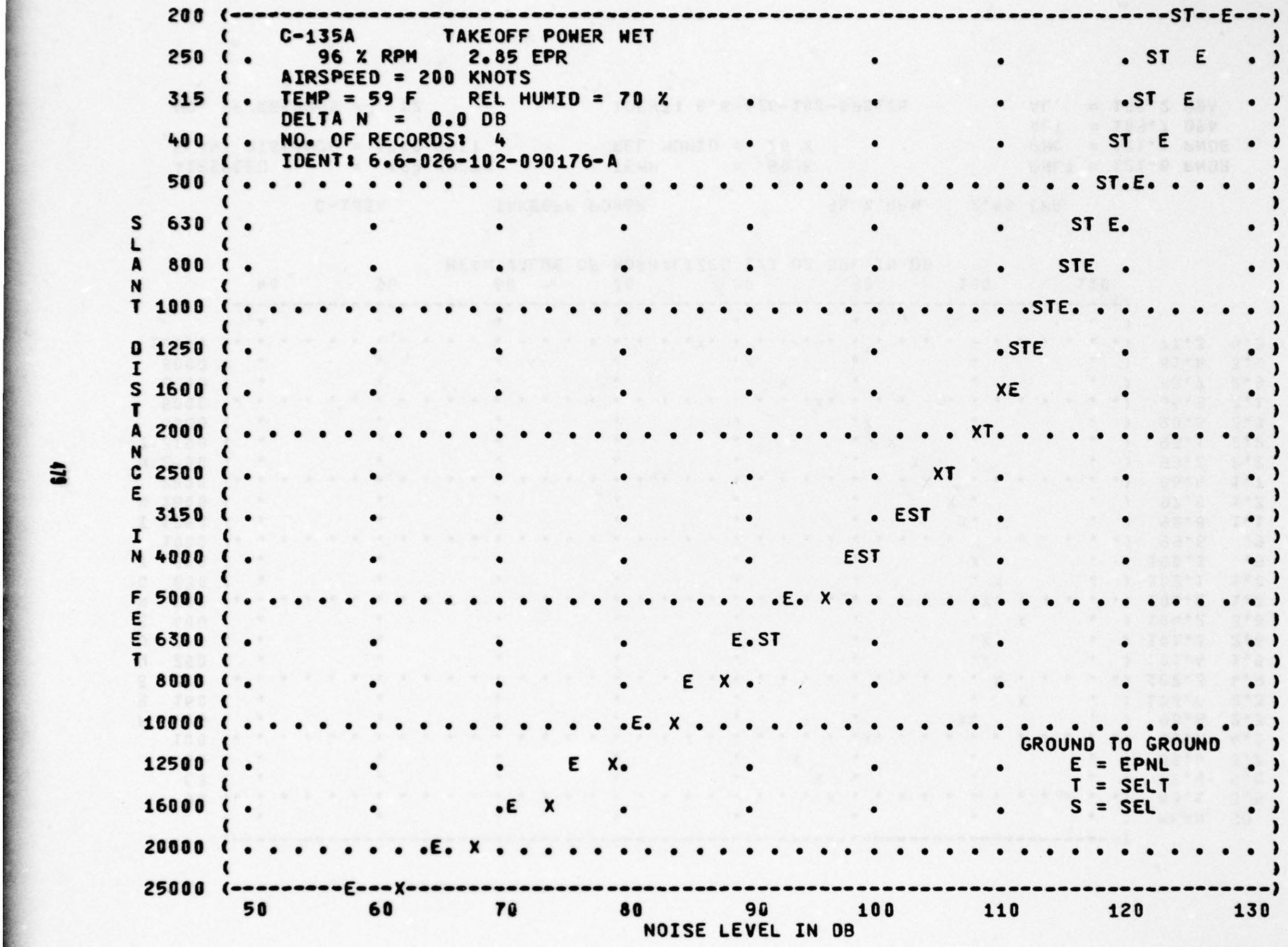
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

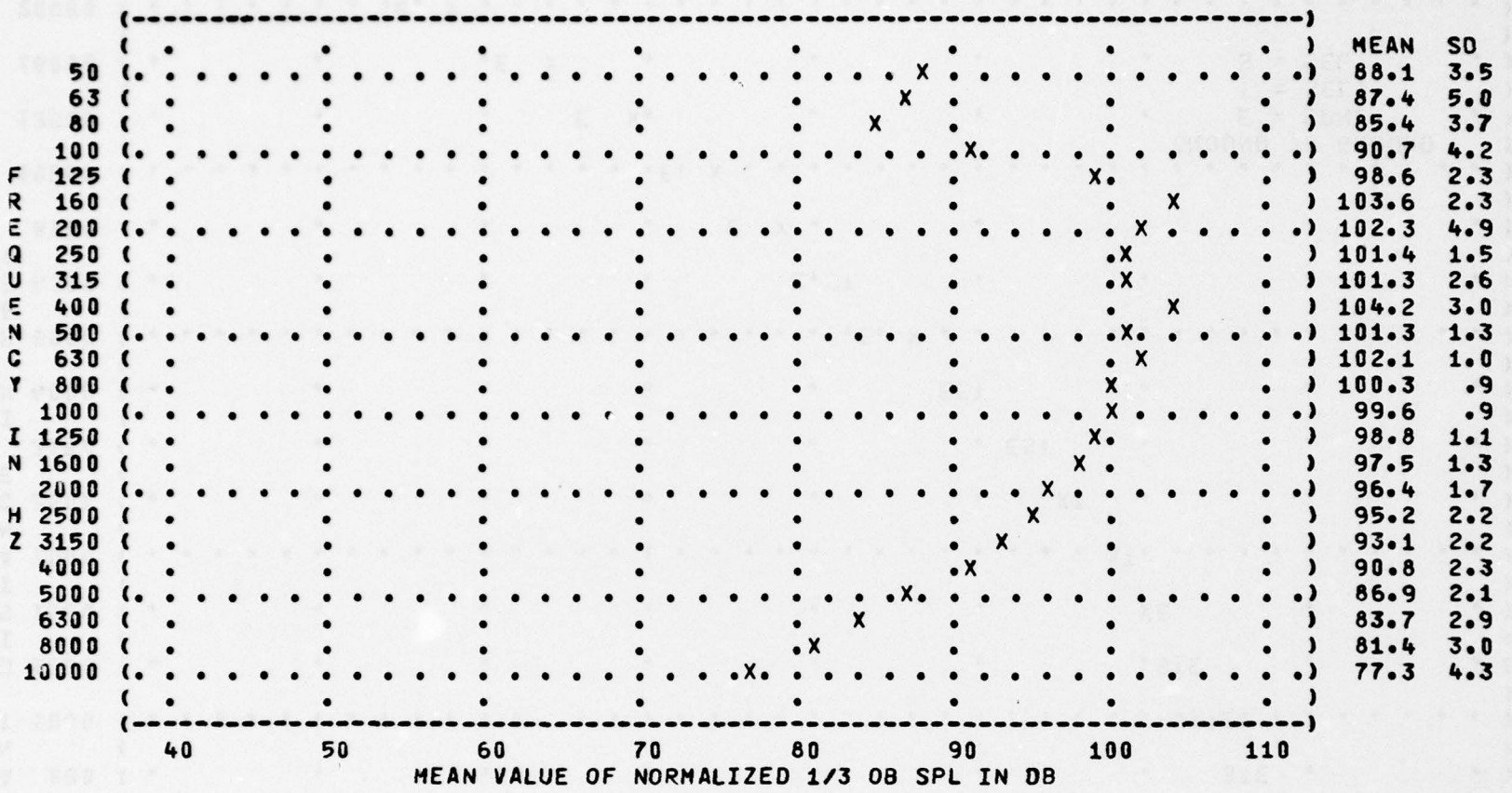
A/C CODE: 026
OPS CODE: 102
PROFILE VER: A
09 JAN 76
PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	121.5	122.0	134.7	135.3	123.6	124.6	127.6
250	119.0	119.5	132.2	132.8	122.1	123.1	126.1
315	116.5	117.0	129.6	130.2	120.6	121.6	124.5
400	114.0	114.6	126.9	127.4	119.1	120.1	122.8
500	111.5	112.1	124.1	124.6	117.7	118.6	120.9
630	109.0	109.6	121.2	121.7	116.2	117.1	119.1
800	106.5	107.1	118.1	118.7	114.6	115.6	117.0
1000	103.9	104.5	115.1	115.7	113.1	114.0	115.0
1250	101.2	101.8	112.0	112.6	111.3	112.3	112.9
1600	98.4	98.9	108.8	109.3	109.5	110.5	110.6
2000	95.5	96.0	105.4	105.9	107.6	108.5	108.2
2500	92.2	92.7	101.5	102.0	105.3	106.2	105.3
3150	88.5	89.0	97.1	97.7	102.6	103.6	102.0
4000	84.3	84.8	92.2	92.7	99.4	100.2	97.9
5000	79.5	79.9	86.9	87.3	95.7	96.2	93.4
6300	74.3	74.5	81.3	81.5	91.5	91.8	88.6
8000	69.6	69.8	76.7	76.9	87.8	88.0	84.8
10000	64.5	64.5	71.8	71.8	83.7	83.7	80.7
12500	58.9	58.9	66.3	66.3	79.1	79.1	76.2
16000	52.8	52.8	60.2	60.2	73.9	73.9	71.1
20000	46.2	46.2	53.2	53.2	68.3	68.3	65.1
25000	39.2	39.2	44.7	44.7	62.3	62.3	57.7

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-135A TAKEOFF POWER WET
96 % RPM 2.85 EPR
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-026-102-090176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


C-135A TAKEOFF POWER WET
96 % RPM 2.85 EPR
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-026-102-090176-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB



C-135A TAKEOFF POWER 96 % RPM 2.45 EPR

AIRSPEED = 199 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 12

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-026-103-090176

PNLT = 121.6 PNDB
PNL = 121.1 PNDB
ALT = 109.7 DBA
AL = 109.2 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-135A

OPERATION:
TAKEOFF POWER
96 % RPM 2.45 EPR
AIRSPEED = 200 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 026
OPS CODE: 103
PROFILE VER: A
09 JAN 76
PAGE H2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	102	101	99	105	113	118	117	116	116	119	116	117	115	115	115	114	113	113	113	112	110	110	114	118
250	100	99	97	103	111	116	115	114	114	117	114	115	113	113	113	112	111	111	110	110	107	108	111	115
315	98	97	95	101	109	114	113	112	112	115	112	113	111	111	110	110	109	109	108	107	105	105	107	110
400	96	95	93	99	107	112	111	110	110	113	110	111	109	109	108	107	107	106	105	105	102	101	103	106
500	94	93	91	97	105	110	108	108	108	111	108	109	107	106	106	105	104	104	103	102	99	98	99	100
630	92	91	89	95	103	108	106	106	105	109	106	107	105	104	104	103	102	101	100	98	95	94	94	94
800	90	89	87	93	101	106	104	103	103	106	103	104	103	102	101	100	99	98	97	95	91	89	88	86
1000	88	87	85	91	99	104<	102	101	101	104	101	102	100	100	99	98	96	95	93	91	87	84	81	77
1250	86	85	83	89	97	102	100	99	99	102	99	100	98	97	96	95	93	92	89	86	82	78	73	67
1600	84	83	81	87	94	99	98	97	97	100	97	97	95	95	93	92	90	88	85	81	76	70	64	53
2000	82	81	79	85	92	97	96	95	95	98	94	95	93	92	91	89	87	84	80	75	70	62	52	38
2500	80	79	77	82	90	95	94	93	92	95	92	92	90	89	87	85	83	80	75	68	62	52	38	18
3150	78	77	75	80	88	93	92	90	90	93	89	90	87	86	84	81	78	74	68	60	53	39	21	
4000	76	75	73	78	86	91	89	88	88	90	87	87	84	82	80	77	73	68	61	50	41	24	0	
5000	74	73	71	76	84	88	87	86	85	87	84	84	80	78	76	72	67	61	52	39	28	6		
6300	72	71	69	74	81	86	84	83	82	84	80	80	77	74	71	66	60	53	41	24	11			
8000	69	69	66	72	79	84	82	80	79	81	77	76	72	69	65	59	52	42	28	7				
10000	67	66	64	69	77	81	79	77	76	78	73	72	67	63	58	51	42	30	12					
12500	65	64	62	67	74	78	76	74	73	74	69	67	61	56	50	41	30	15						
16000	63	62	59	64	71	75	73	71	69	69	64	61	55	48	41	29	16							
20000	60	59	57	61	68	72	69	67	65	65	58	54	47	39	29	15								
25000	58	57	54	59	65	69	66	63	60	59	51	46	37	27	15									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 026
OPS CODE: 103
PROFILE VER: A
09 JAN 76
PAGE I2

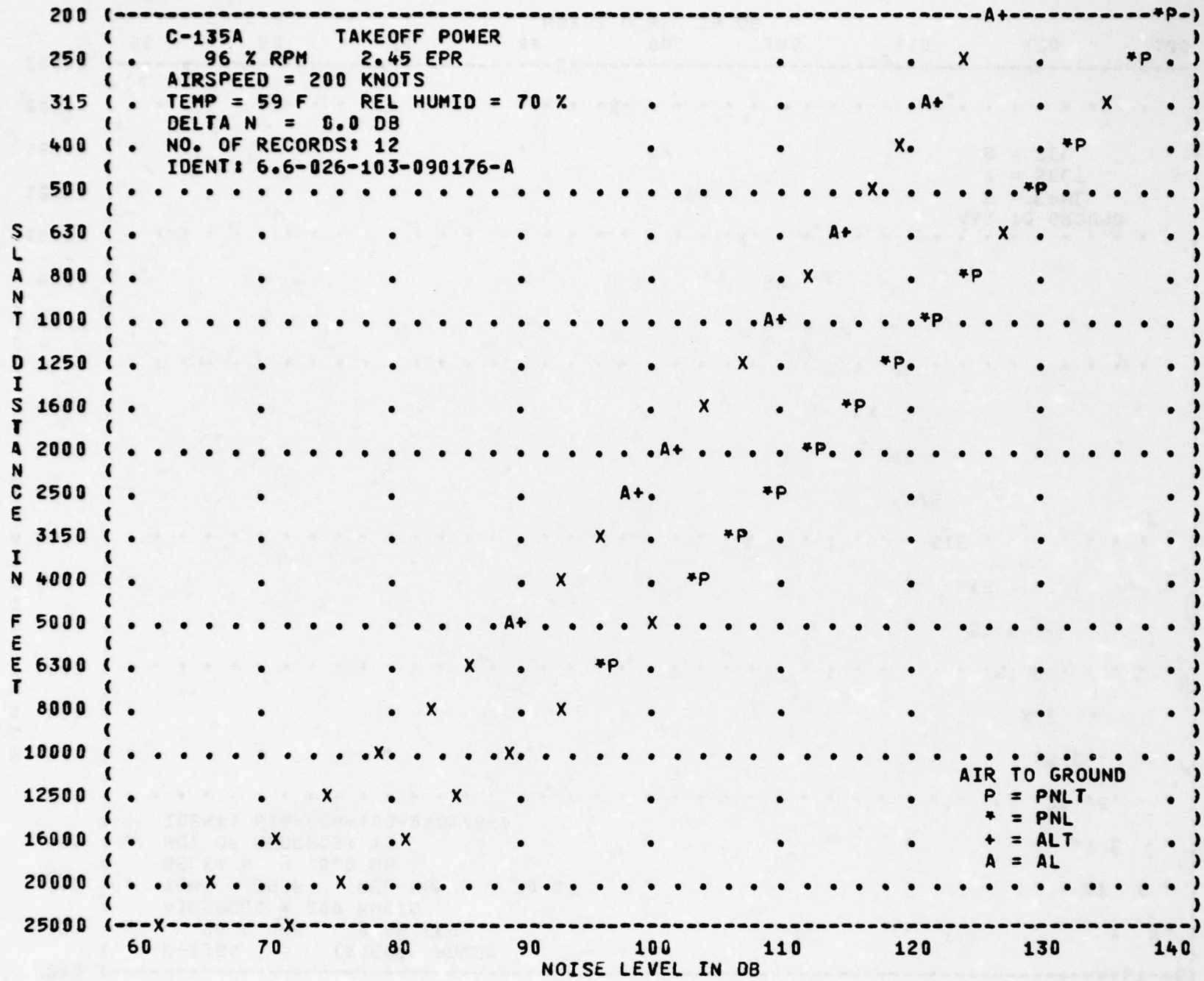
AIRCRAFT: C-135A

OPERATION:
TAKEOFF POWER
96 % RPM 2.45 EPR
AIRSPEED = 200 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	126.1	126.6	139.3	139.9	126.9	127.7	130.8
250	123.7	124.3	137.0	137.5	125.6	126.4	129.4
315	121.4	121.9	134.6	135.1	124.2	125.0	128.0
400	119.0	119.5	132.0	132.6	122.8	123.6	126.5
500	116.5	117.1	129.5	130.0	121.4	122.2	124.9
630	114.1	114.6	126.8	127.3	120.0	120.8	123.2
800	111.7	112.2	124.0	124.5	118.5	119.3	121.4
1000	109.2	109.7	121.1	121.6	117.0	117.8	119.5
1250	106.6	107.1	118.1	118.6	115.5	116.2	117.6
1600	104.0	104.5	115.3	115.8	113.8	114.6	115.7
2000	101.3	101.8	112.4	112.9	112.1	112.9	113.8
2500	98.5	99.0	109.4	109.9	110.3	111.1	111.8
3150	95.5	96.1	106.3	106.8	108.4	109.2	109.7
4000	92.5	92.9	103.1	103.5	106.4	107.0	107.4
5000	89.3	89.6	99.8	100.1	104.2	104.7	104.9
6300	86.0	86.2	96.3	96.5	101.9	102.2	102.3
8000	82.5	82.6	92.7	92.8	99.4	99.5	99.6
10000	78.8	78.8	88.9	88.9	96.7	96.7	96.6
12500	74.9	74.9	84.8	84.8	93.8	93.8	93.5
16000	70.8	70.8	80.7	80.7	90.7	90.7	90.3
20000	66.4	66.4	76.4	76.4	87.3	87.3	87.0
25000	61.8	61.8	71.7	71.7	83.7	83.7	83.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-135A TAKEOFF POWER
96 % RPM 2.45 EPR
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 6.6-026-103-090176-A
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

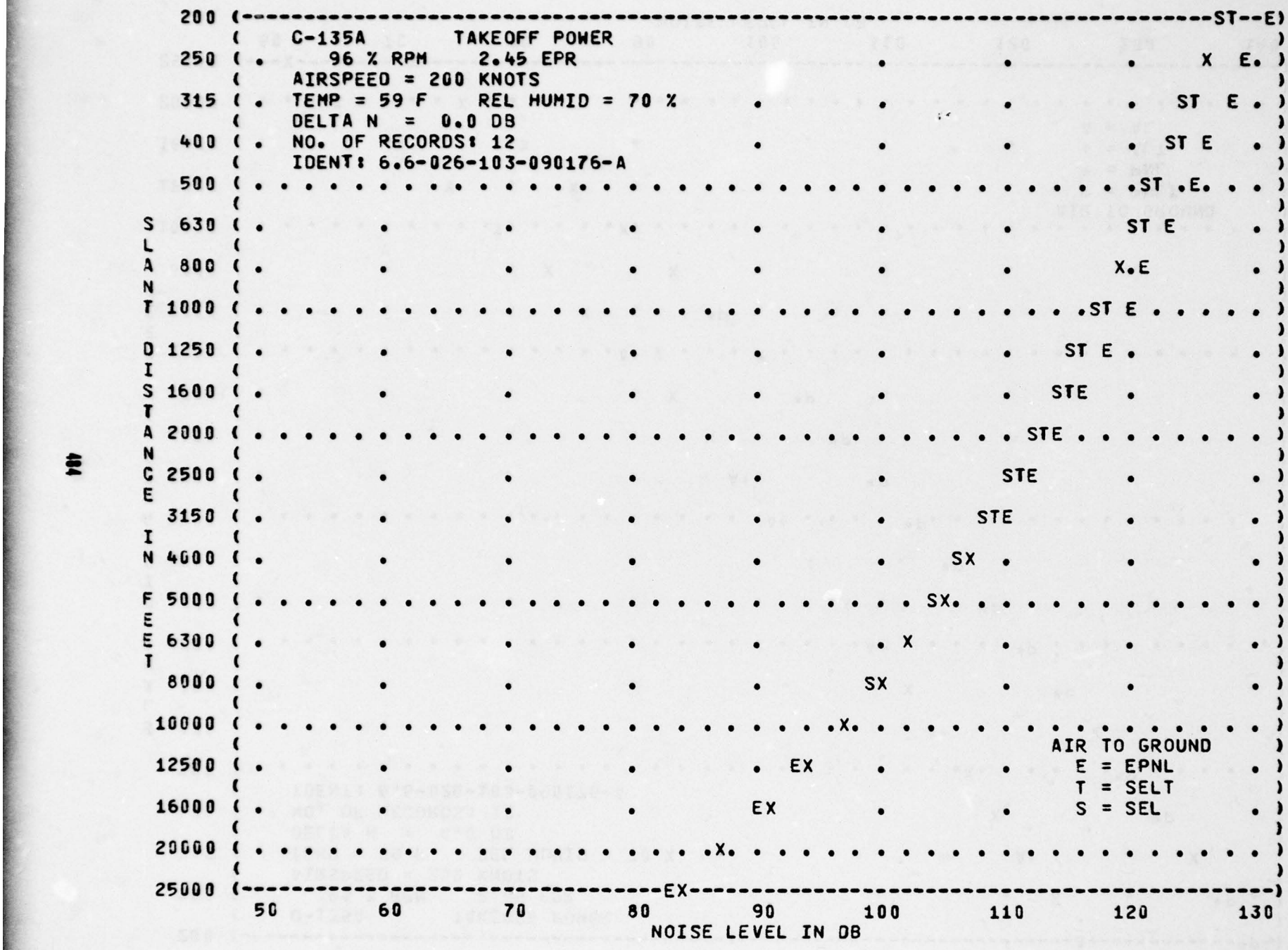

C-135A TAKEOFF POWER
96 % RPM 2.45 EPR
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 6.6-026-103-090176-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-135A

OPERATION:
TAKEOFF POWER
96 % RPM 2.45 EPR
AIRSPEED = 200 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 026
OPS CODE: 103
PROFILE VER: A
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PAGE L2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	97	96	94	100	108	113	112	111	111	114	111	112	110	110	110	109	108	108	108	107	105	105	109	113
250	95	94	92	98	106	111	110	109	109	112	109	110	108	108	108	107	106	106	105	105	102	103	106	110
315	93	92	90	96	104	109	108	107	107	110	107	108	106	106	105	105	104	104	103	102	100	100	102	105
400	91	90	88	94	102	107	105	105	105	108	105	106	104	104	103	102	102	101	100	100	97	96	98	101
500	89	88	86	92	100	104	103	102	103	106	103	104	102	101	101	100	99	99	98	97	94	93	94	95
630	87	86	84	90	97	102	100	100	100	104	101	102	100	99	99	98	97	96	95	93	90	89	89	89
800	85	84	82	87	94	99	97	97	98	101	98	99	98	97	96	95	94	93	92	90	86	84	83	81
1000	83	82	80	85	91	96	95	94	96	99<	96	97	95	95	94	93	91	90	88	86	82	79	76	72
1250	81	80	77	81	88	93	91	91	93	97	94	95	93	92	91	90	88	87	84	81	77	73	68	62
1600	79	77	74	78	85	89	88	87	90	95	92	92	90	90	88	87	85	83	80	76	71	65	59	48
2000	76	74	70	74	81	85	84	83	86	93	89	90	88	87	86	84	82	79	75	70	65	57	47	33
2500	72	70	66	70	77	81	80	79	82	89	87	87	85	84	82	80	78	75	70	63	57	47	33	13
3150	68	65	61	65	72	76	75	74	78	84	83	85	82	81	79	76	73	69	63	55	48	34	16	
4000	64	60	56	59	66	70	69	68	72	80	79	81	79	77	75	72	68	63	56	45	36	19		
5000	59	55	51	55	61	65	64	63	66	74	75	77	75	73	71	67	62	56	47	34	23	1		
6300	54	51	47	50	56	61	59	58	60	68	70	72	71	69	66	61	55	48	36	19	6			
8000	51	49	44	48	54	58	56	55	57	65	67	68	66	64	60	54	47	37	23	2				
10000	49	46	42	45	52	55	54	52	54	62	63	64	61	58	53	46	37	25	7					
12500	47	44	40	43	49	53	51	49	51	58	59	59	55	51	45	36	25	10						
16000	45	42	37	40	46	50	47	46	47	53	54	53	49	43	36	24	11							
20000	42	39	35	37	43	47	44	42	43	49	48	46	41	34	24	10								
25000	40	37	32	35	40	43	40	38	38	43	41	38	31	22	10									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-135A

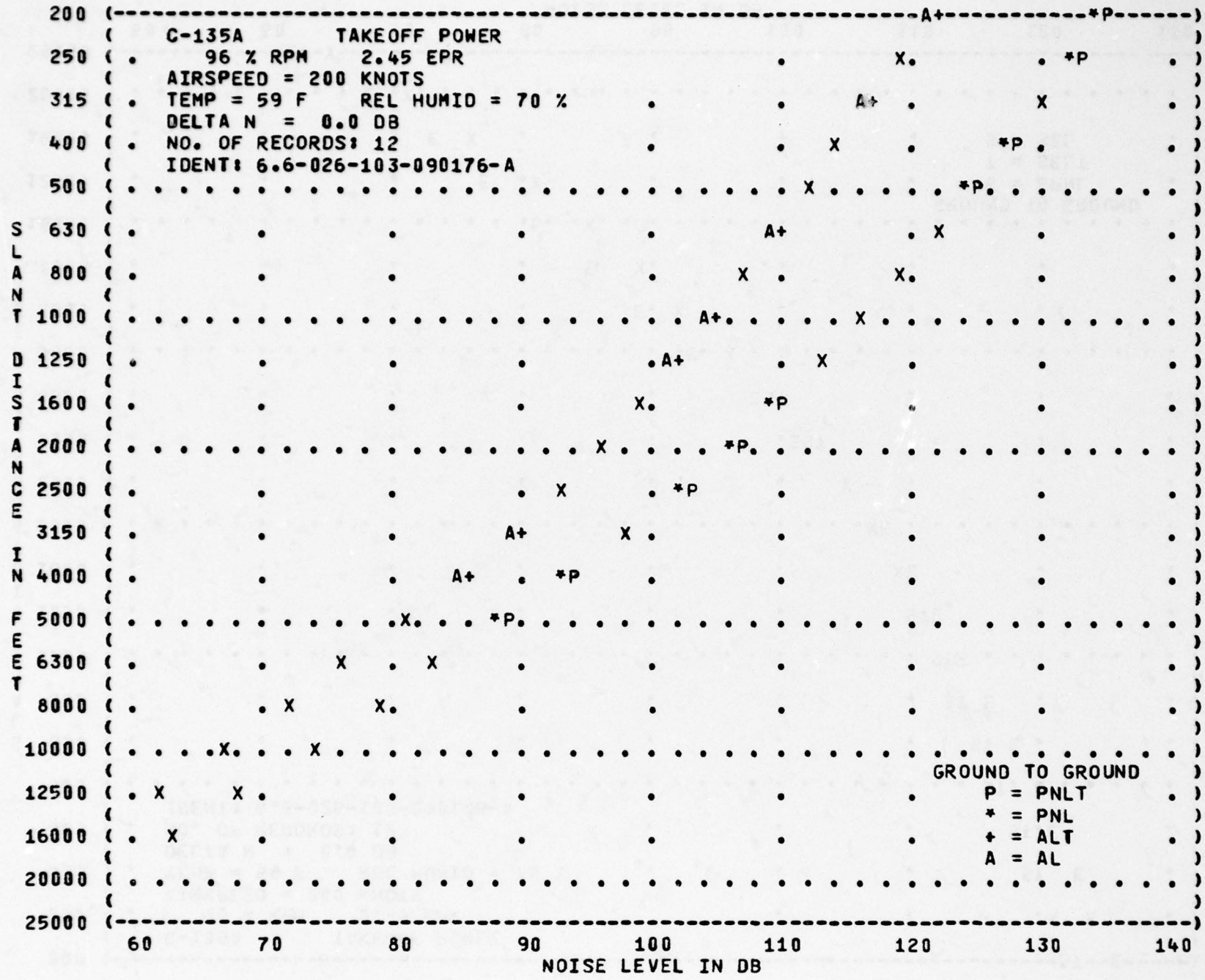
OPERATION:
TAKEOFF POWER
96 % RPM 2.45 EPR
AIRSPEED = 200 KNOTS

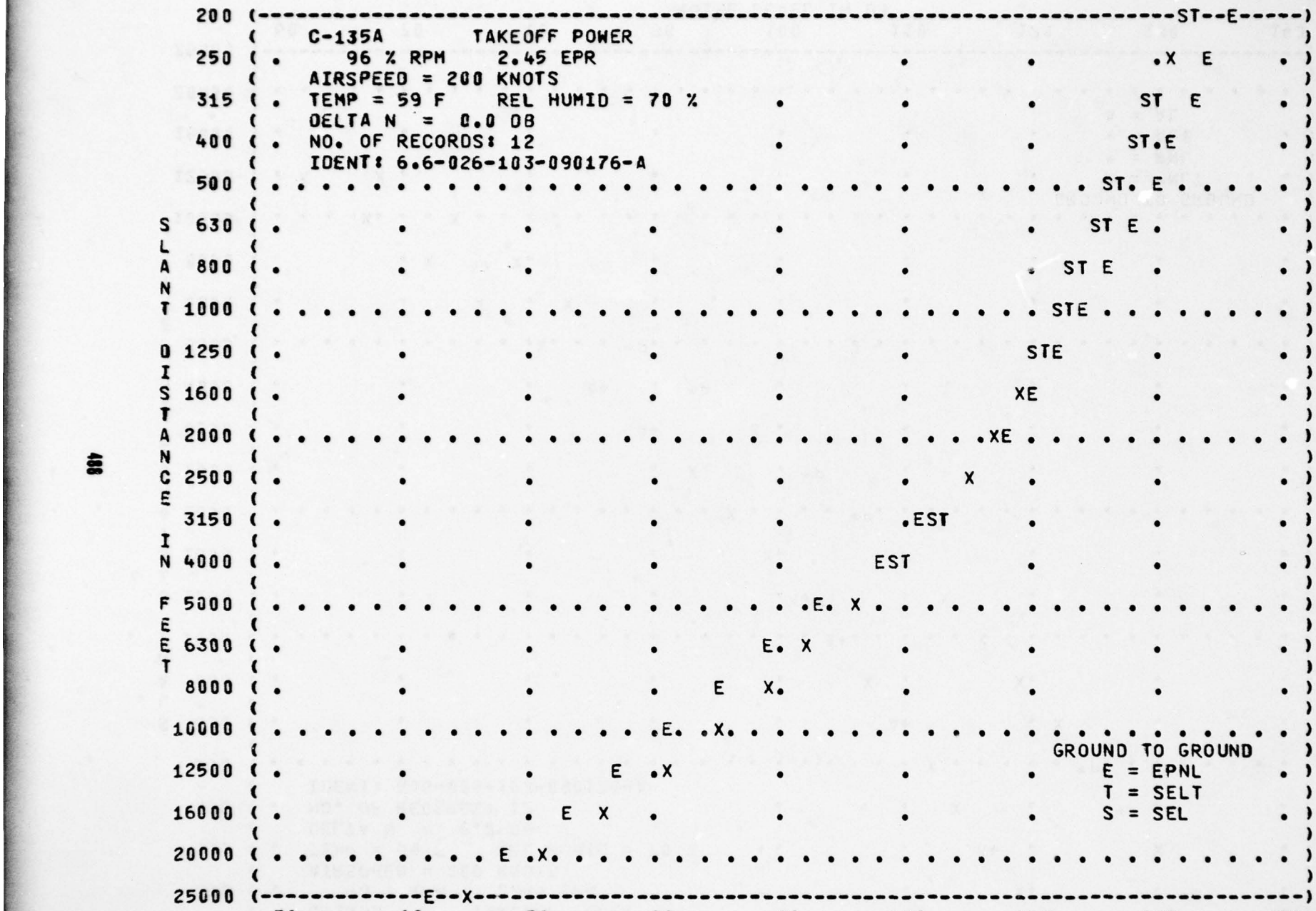
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

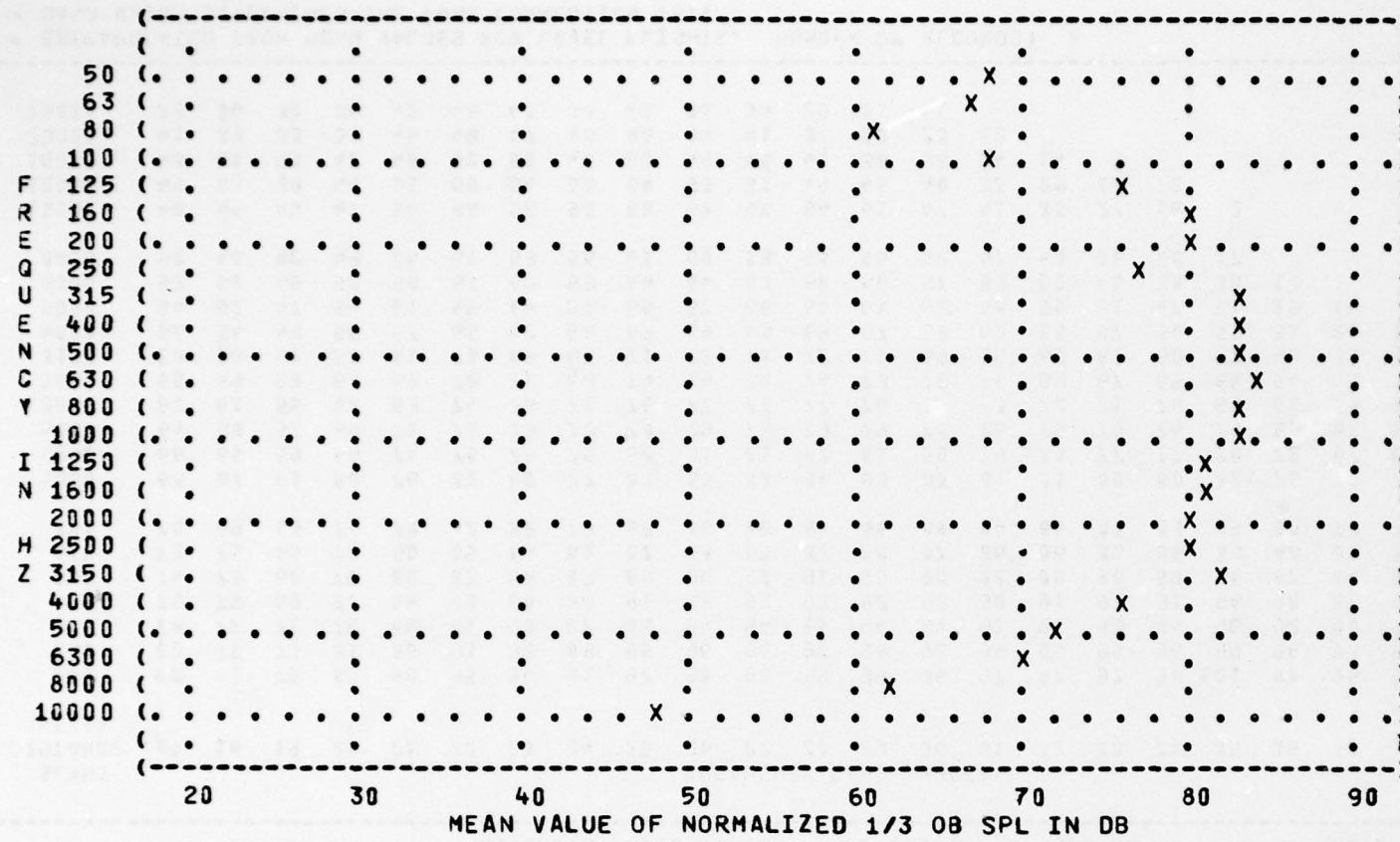
A/C CODE: 026
OPS CODE: 103
PROFILE VER: A
09 JAN 76
PAGE M2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	121.1	121.6	134.3	134.9	121.9	122.7	125.8
250	118.7	119.2	132.0	132.5	120.6	121.4	124.4
315	116.4	116.9	129.6	130.1	119.2	120.0	123.0
400	114.0	114.5	127.0	127.5	117.8	118.6	121.5
500	111.5	112.0	124.4	124.9	116.4	117.2	119.9
630	109.1	109.6	121.7	122.2	114.9	115.7	118.1
800	106.6	107.1	118.8	119.3	113.5	114.2	116.2
1000	104.1	104.6	115.7	116.2	111.9	112.7	114.2
1250	101.4	101.9	112.6	113.1	110.3	111.0	112.0
1600	98.7	99.2	109.5	110.0	108.5	109.3	109.9
2000	95.9	96.4	106.2	106.8	106.7	107.5	107.7
2500	92.7	93.2	102.3	102.8	104.5	105.3	104.7
3150	89.2	89.7	97.9	98.4	102.1	102.8	101.3
4000	85.3	85.8	93.4	93.8	99.2	99.8	97.6
5000	80.9	81.2	88.3	88.6	95.8	96.3	93.5
6300	76.2	76.4	83.1	83.3	92.0	92.3	89.0
8000	71.8	71.9	78.6	78.7	88.7	88.8	85.4
10000	67.1	67.1	73.8	73.8	85.0	85.0	81.5
12500	62.0	62.0	68.5	68.5	80.8	80.8	77.2
16000	56.3	56.3	62.9	62.9	76.2	76.2	72.5
20000	50.2	50.2	56.9	56.9	71.1	71.1	67.6
25000	43.5	43.5	50.4	50.4	65.4	65.4	62.1

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-135A TAKEOFF POWER
96 % RPM 2.45 EPR
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 6.6-026-103-090176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


C-135A TAKEOFF POWER
96 % RPM 2.45 EPR
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 6.6-026-103-090176-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB



C-135A CRUISE POWER 86 % RPM 1.50 EPR

AIRSPEED = 300 KNOTS
SLANT DISTANCE = 1000 FEET
NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %
IDENT: 6.6-026-104-090176

PNLT = 106.1 PNDB
PNL = 104.9 PNDB
ALT = 93.3 DBA
AL = 92.1 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-135A

OPERATION:
CRUISE POWER
86 % RPM 1.50 EPR
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
A/C CODE: 026
OPS CODE: 104
PROFILE VER: A
09 JAN 76
PAGE H3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	82	81	75	83	90	95	94	91	97	98	98	99	99	98	97	97	97	98	101	97	95	96	94	89
250	80	79	73	81	88	93	92	89	95	96	96	97	96	96	95	95	95	96	99	95	93	93	91	85
315	78	77	71	79	86	91	90	87	93	94	94	95	94	94	93	93	93	94	96	92	90	90	88	81
400	76	75	69	77	84	89	88	85	91	92	92	93	92	92	90	91	91	91	94	90	87	87	84	76
500	74	73	67	75	82	87	86	83	89	90	90	91	90	90	88	88	88	89	91	87	84	84	80	71
630	72	71	65	73	80	85	84	81	87	88	88	88	88	87	86	86	86	86	88	83	80	79	75	65
800	70	69	63	71	78	82	82	79	85	86	86	86	86	85	84	84	83	83	85	80	77	75	69	57
1000	68	67	61	68	76	80	80	77	83	83	83	84	83	83	81	81	80	80	82<	76	72	70	62	48
1250	66	65	59	66	74	78	78	75	80	81	81	82	81	80	79	78	77	77	78	72	67	64	55	38
1600	64	63	57	64	71	76	75	73	78	79	79	79	79	78	76	75	74	74	74	66	62	57	45	25
2000	62	61	55	62	69	74	73	71	76	77	77	77	76	75	73	72	71	70	69	61	55	48	34	9
2500	60	59	53	60	67	72	71	68	74	74	74	74	73	72	70	69	67	65	64	54	48	38	20	
3150	58	56	51	58	65	70	69	66	71	72	71	72	70	69	66	65	62	60	57	46	39	26	3	
4000	56	54	49	56	63	68	67	64	69	69	69	69	67	65	62	60	57	54	50	36	28	11		
5000	54	52	47	54	61	65	64	61	66	67	66	66	64	61	58	55	51	47	41	25	14			
6300	52	50	45	52	58	63	62	59	64	64	63	62	60	57	53	50	45	38	30	10				
8000	50	48	42	49	56	60	59	56	61	60	59	58	55	52	47	43	36	28	17					
10000	48	46	40	47	54	58	56	53	58	57	55	54	51	47	41	35	27	16	2					
12500	45	43	38	44	51	55	54	50	54	53	51	49	45	40	33	25	15	2						
16000	43	41	35	42	48	52	50	46	50	49	46	43	38	32	24	14	1							
20000	41	39	33	39	45	49	47	43	46	44	41	37	30	23	12									
25000	38	36	30	36	42	46	43	38	41	38	34	29	21	11										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-135A

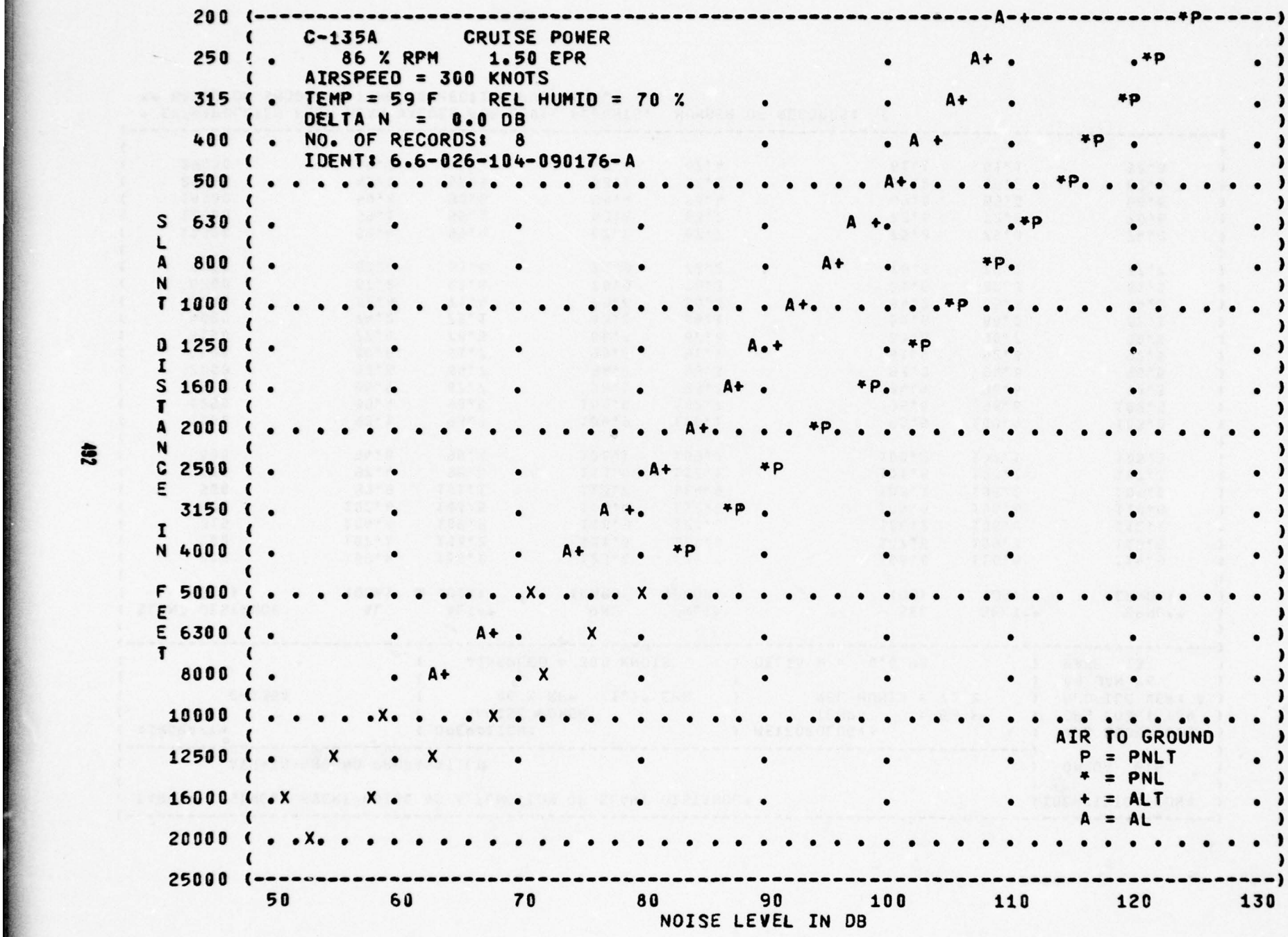
OPERATION:
CRUISE POWER
86 % RPM 1.50 EPR
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 026
OPS CODE: 104
PROFILE VER: A
09 JAN 76
PAGE 13

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	109.4	110.5	123.6	124.7	108.8	110.6	114.9
250	107.1	108.2	121.3	122.4	107.5	109.3	113.6
315	104.8	105.9	118.9	120.0	106.2	108.0	112.1
400	102.4	103.5	116.4	117.5	104.8	106.6	110.6
500	99.9	101.1	113.7	114.9	103.3	105.2	109.0
630	97.4	98.5	111.0	112.1	101.8	103.7	107.3
800	94.8	95.9	108.1	109.2	100.2	102.1	105.3
1000	92.1	93.3	104.9	106.1	98.5	100.4	103.2
1250	89.4	90.5	101.6	102.7	96.8	98.6	100.9
1600	86.5	87.7	98.1	99.2	94.9	96.8	98.3
2000	83.6	84.7	94.2	95.3	93.0	94.8	95.5
2500	80.6	81.7	90.2	91.4	91.0	92.8	92.5
3150	77.4	78.5	86.7	87.8	88.8	90.7	90.0
4000	74.2	75.1	83.2	84.1	86.6	88.0	87.1
5000	70.8	71.4	79.6	80.3	84.2	85.3	84.2
6300	67.2	67.6	75.9	76.3	81.6	82.3	81.0
8000	63.4	63.6	71.9	72.2	78.8	79.2	77.7
10000	59.4	59.4	67.7	67.7	75.8	75.8	74.2
12500	55.1	55.1	63.2	63.2	72.6	72.6	70.6
16000	50.6	50.6	58.4	58.4	69.0	69.0	66.8
20000	45.8	45.8	53.1	53.1	65.2	65.2	62.6
25000	40.7	40.7	47.4	47.4	61.1	61.1	57.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-135A CRUISE POWER
86 % RPM 1.50 EPR
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-026-104-090176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL

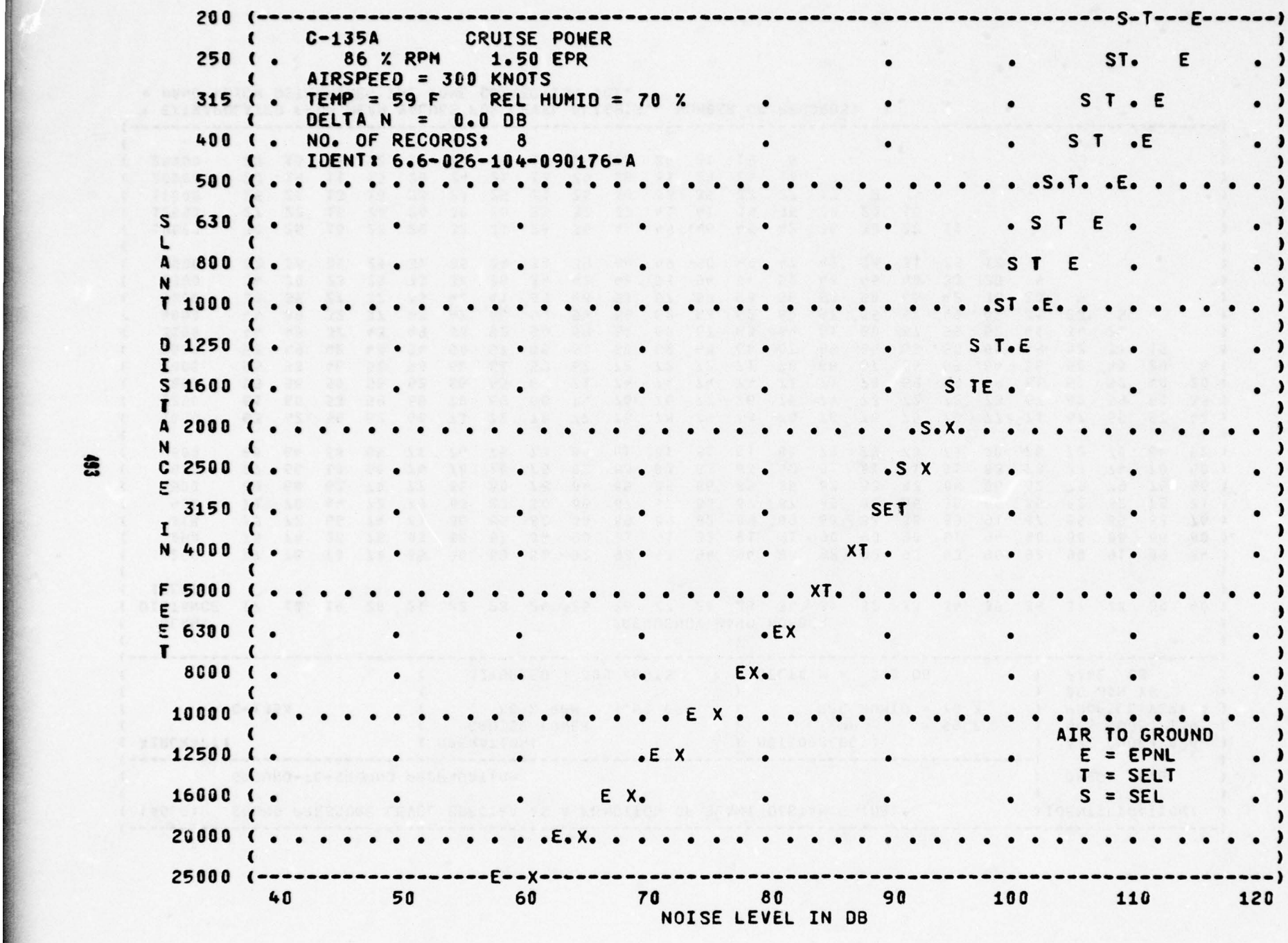

C-135A CRUISE POWER
86 % RPM 1.50 EPR
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-026-104-090176-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-135A

OPERATION:
CRUISE POWER
86 % RPM 1.50 EPR
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 026
OPS CODE: 104
PROFILE VER: A
09 JAN 76
PAGE L3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	77	76	70	78	85	90	89	86	92	93	93	94	94	93	92	92	92	93	96	92	90	91	89	84
250	75	74	68	76	83	88	87	84	90	91	91	92	91	91	90	90	90	91	94	90	88	88	86	80
315	73	72	66	74	81	86	85	82	88	89	89	90	89	89	88	88	88	89	91	87	85	85	83	76
400	71	70	64	72	79	83	83	80	86	87	87	88	87	87	85	86	86	86	89	85	82	82	79	71
500	69	68	62	70	77	81	80	78	84	85	85	86	85	85	83	83	83	84	86	82	79	79	75	66
630	67	66	60	68	74	78	78	75	82	83	83	83	83	82	81	81	81	81	83	78	75	74	70	60
800	65	64	58	65	71	76	75	73	80	81	81	81	81	80	79	79	78	78	80	75	72	70	64	52
1000	63	62	56	62	68	73	72	70	77	78	78	79	78	78	76	76	75	75	77<	71	67	65	57	43
1250	61	60	53	59	65	70	69	66	74	76	76	77	76	75	74	73	72	72	73	67	62	59	50	33
1600	59	56	50	56	62	66	65	63	71	74	74	74	74	73	71	70	69	69	69	61	57	52	40	20
2000	56	53	46	52	58	62	61	59	67	72	72	72	71	70	68	67	66	65	64	56	50	43	29	4
2500	53	49	42	48	54	58	57	55	63	68	69	69	68	67	65	64	62	60	59	49	43	33	15	
3150	49	45	37	43	49	53	52	50	59	64	65	67	65	64	61	60	57	55	52	41	34	21		
4000	44	39	32	37	43	47	46	44	54	59	62	63	62	60	57	55	52	49	45	31	23	6		
5000	39	35	27	32	38	42	41	39	48	53	57	59	58	56	53	50	46	42	36	20	9			
6300	34	30	23	28	33	37	36	34	42	48	53	54	54	52	48	45	40	33	25	5				
8000	32	28	20	25	31	35	34	31	39	44	49	50	49	47	42	38	31	23	12					
10000	30	26	18	23	29	32	31	28	36	41	45	46	45	42	36	30	22	11						
12500	27	23	16	20	26	30	28	25	32	37	41	41	39	35	28	20	10							
16000	25	21	13	18	23	27	25	21	28	33	36	35	32	27	19	9								
20000	23	19	11	15	20	24	21	18	24	28	31	29	24	18	7									
25000	20	16	8	12	17	20	18	13	19	22	24	21	15	6										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-135A

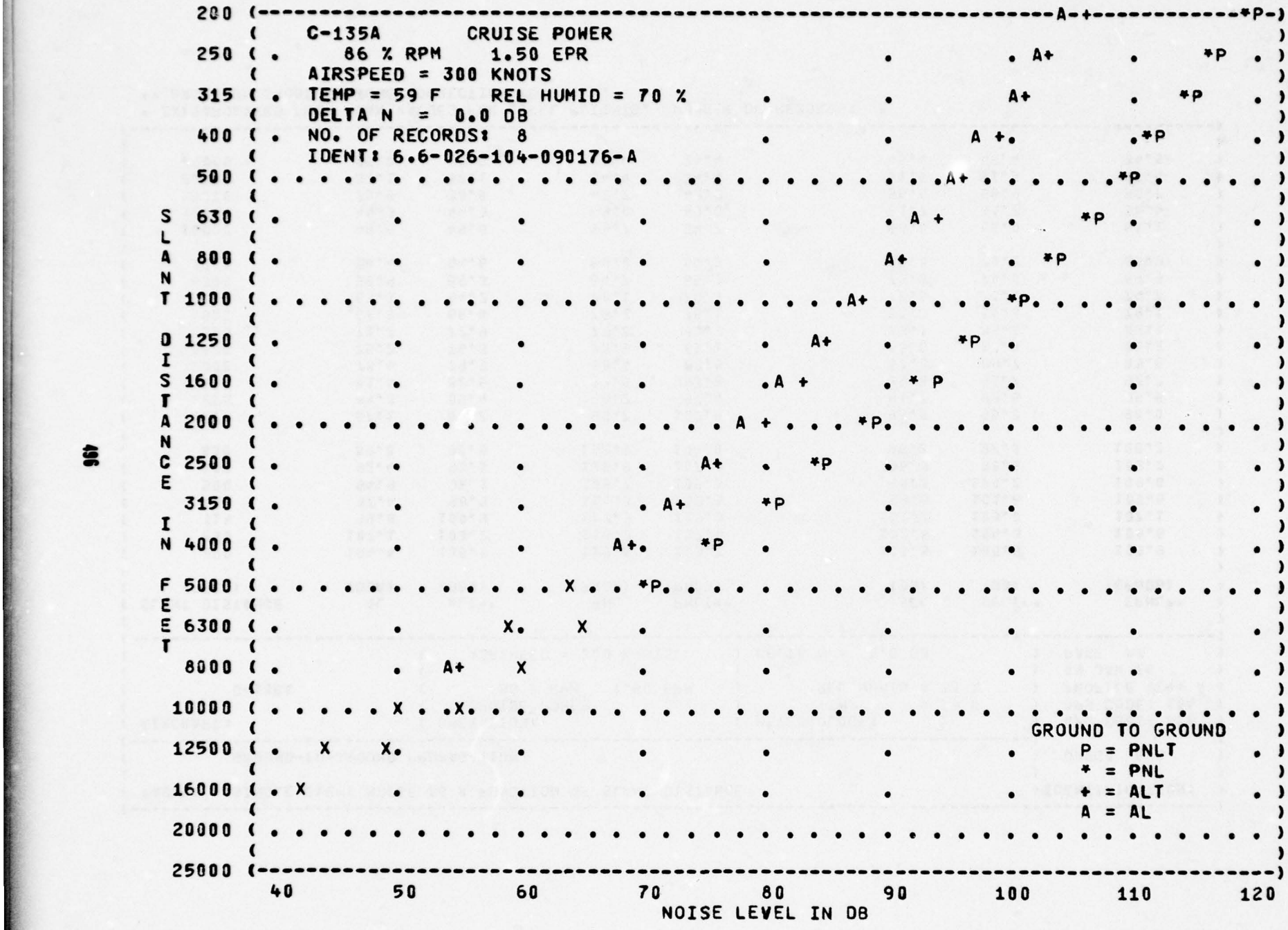
OPERATION:
CRUISE POWER
86 % RPM 1.50 EPR
AIRSPEED = 300 KNOTS

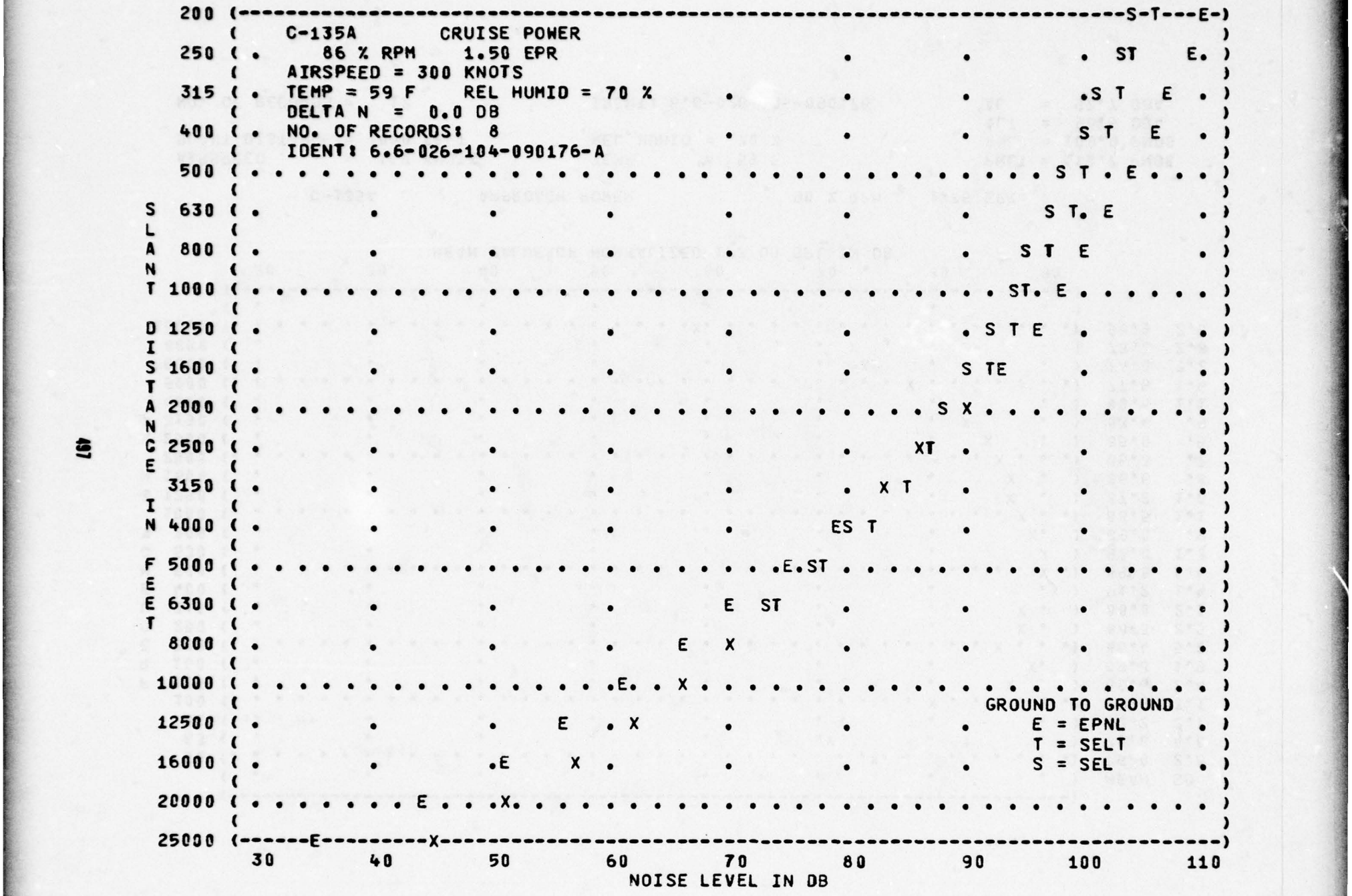
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

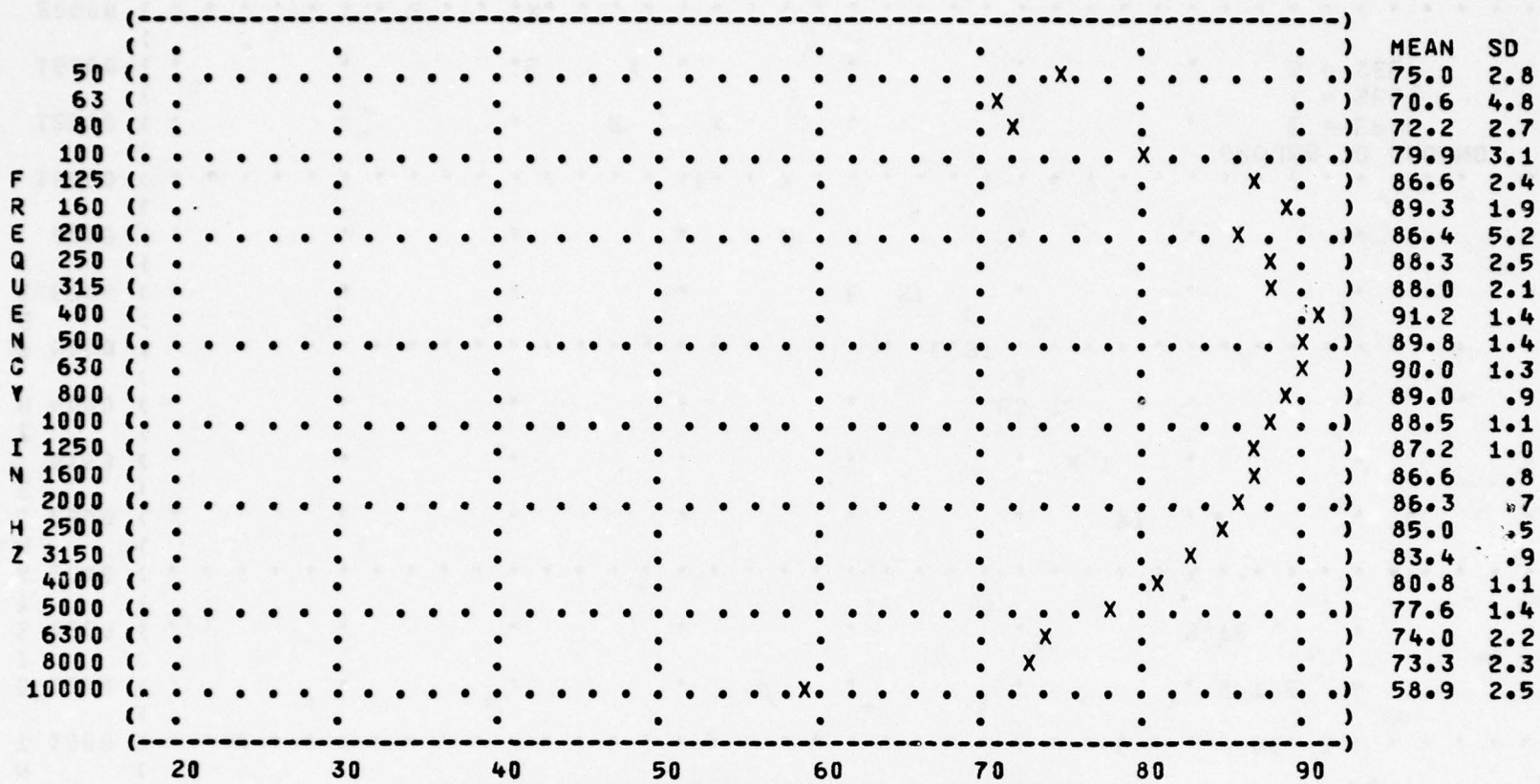
A/C CODE: 026
OPS CODE: 104
PROFILE VER: A
09 JAN 76
PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	104.4	105.5	118.6	119.7	103.8	105.6	109.9
250	102.1	103.2	116.3	117.4	102.5	104.3	108.6
315	99.8	100.9	113.9	115.0	101.2	103.0	107.1
400	97.4	98.5	111.3	112.5	99.8	101.6	105.6
500	94.9	96.1	108.7	109.8	98.3	100.2	104.0
630	92.4	93.5	105.9	107.0	96.8	98.6	102.2
800	89.8	90.9	102.9	104.0	95.2	97.0	100.2
1000	87.1	88.2	99.7	100.8	93.5	95.3	98.0
1250	84.3	85.4	96.2	97.4	91.7	93.6	95.5
1600	81.4	82.5	92.5	93.6	89.8	91.7	92.7
2000	78.4	79.5	88.4	89.5	87.8	89.7	89.6
2500	75.2	76.3	83.9	85.1	85.6	87.4	86.2
3150	71.7	72.9	79.8	80.9	83.1	85.0	83.1
4000	67.9	68.8	75.2	76.1	80.3	81.8	79.1
5000	63.6	64.2	70.1	70.8	77.0	78.1	74.7
6300	58.9	59.3	64.7	65.2	73.3	74.0	69.9
8000	54.4	54.6	60.0	60.3	69.8	70.2	65.9
10000	49.6	49.6	54.7	54.7	66.0	66.0	61.2
12500	44.3	44.3	49.0	49.0	61.7	61.7	56.4
16000	38.5	38.5	42.2	42.2	56.9	56.9	50.7
20000	32.1	32.1	34.4	34.4	51.5	51.5	43.8
25000	25.0	25.0	24.4	24.4	45.4	45.4	34.9

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-135A CRUISE POWER
86 % RPM 1.50 EPR
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-026-104-090176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


C-135A CRUISE POWER
86 % RPM 1.50 EPR
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-026-104-090176-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB



C-135A APPROACH POWER 90 % RPM 1.75 EPR

AIRSPEED = 160 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 12

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-026-105-090176

PNLT = 110.7 PNDB
PNL = 109.9 PNDB
ALT = 98.5 DBA
AL = 97.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-135A

OPERATION:
APPROACH POWER
90 % RPM 1.75 EPR
AIRSPEED = 160 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 026
OPS CODE: 105
PROFILE VER: A
09 JAN 76
PAGE H4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	89	85	86	94	101	104	101	103	102	106	104	105	104	104	103	103	103	102	102	101	99	98	102	95
250	87	83	84	92	99	102	99	101	100	104	102	103	102	102	101	100	101	100	99	99	96	96	99	91
315	85	81	82	90	97	99	97	99	98	102	100	101	100	99	98	98	98	98	97	96	94	93	96	88
400	83	79	80	88	95	97	95	96	96	100	98	99	98	97	96	96	96	95	95	93	91	90	93	83
500	81	77	78	86	93	95	93	94	94	98	96	97	96	95	94	94	94	93	92	91	88	86	89	78
630	79	75	76	84	91	93	90	92	92	95	94	94	93	93	92	91	91	91	89	88	85	83	84	73
800	77	73	74	82	89	91	88	90	90	93	92	92	91	91	90	89	89	88	87	84	81	79	79	66
1000	75	71	72	80	87	89	86	88	88	91	90	90	89	88	87	87	86	85	83	81	78	74	73<	59
1250	73	69	70	78	85	87	84	86	86	89	88	88	87	86	85	84	83	82	80	77	73	69	66	50
1600	71	67	68	76	82	85	82	84	84	87	85	85	84	84	82	81	80	79	76	72	68	62	58	39
2000	69	64	66	74	80	83	80	82	82	85	83	83	82	81	79	78	77	75	72	67	63	55	49	26
2500	67	62	64	72	78	81	78	80	79	82	81	81	79	78	76	75	74	71	67	61	56	47	37	10
3150	65	60	62	70	76	79	76	77	77	80	78	78	76	75	73	71	70	66	62	54	48	36	23	
4000	63	58	60	68	74	77	74	75	75	77	76	75	73	72	70	67	65	61	55	46	39	24	6	
5000	61	56	58	65	72	74	71	73	72	75	73	72	70	69	66	63	60	55	47	36	27	8		
6300	59	54	56	63	70	72	69	70	70	72	70	69	67	65	61	58	54	48	38	24	13			
8000	56	52	53	61	67	70	66	68	67	69	67	66	63	60	56	52	47	39	27	9				
10000	54	50	51	59	65	67	64	65	64	66	63	62	58	55	50	45	39	29	14					
12500	52	48	49	56	62	65	61	62	61	62	59	57	53	49	44	37	29	16						
16000	50	45	47	54	60	62	58	59	57	59	55	52	48	43	36	27	17	1						
20000	48	43	44	51	57	59	55	55	53	54	50	46	41	34	26	15	2							
25000	45	40	41	49	54	56	51	52	49	49	44	40	33	25	14	1								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-135A

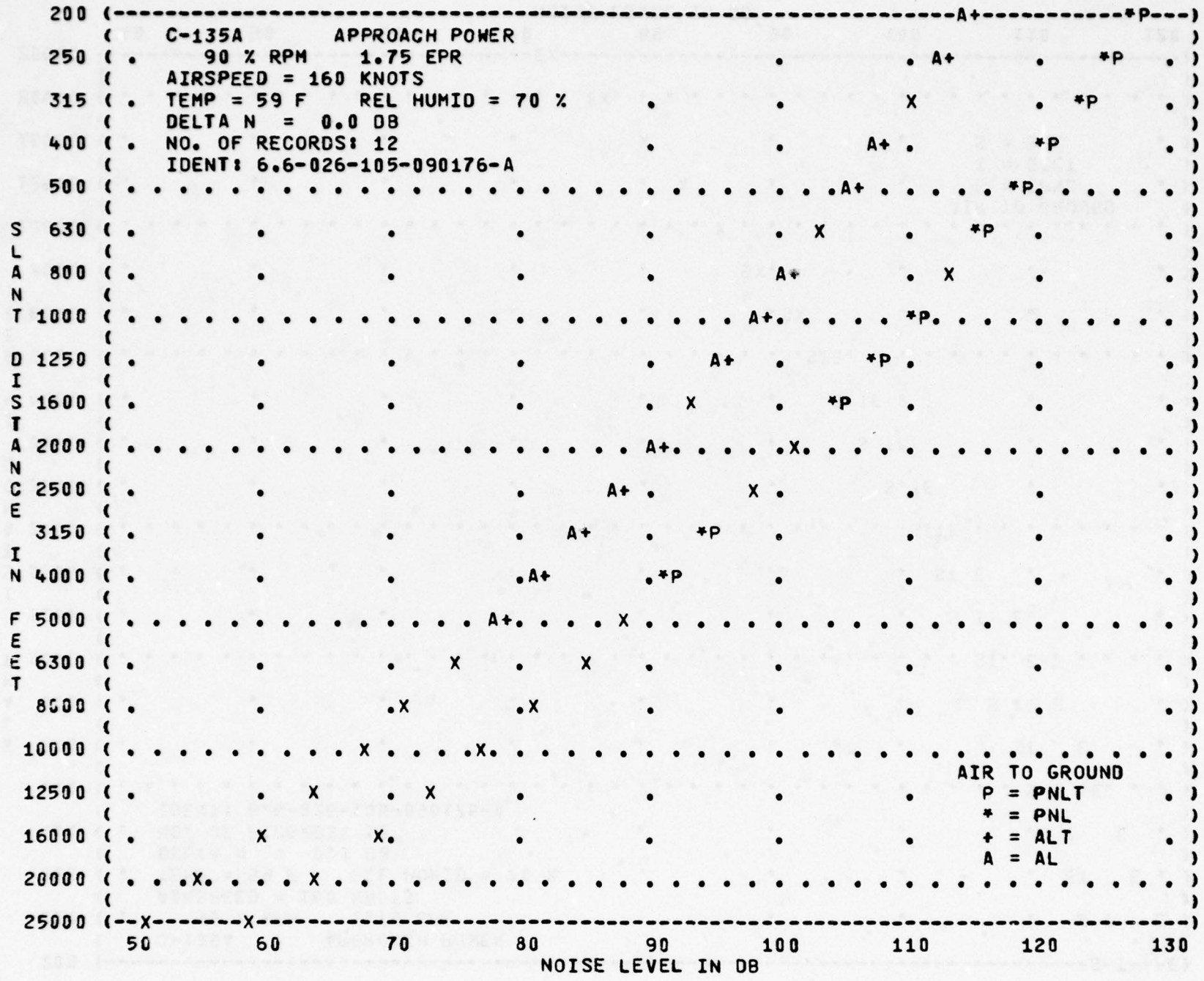
OPERATION:
APPROACH POWER
90 % RPM 1.75 EPR
AIRSPEED = 160 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 026
OPS CODE: 105
PROFILE VER: A
09 JAN 76
PAGE I4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	114.1	114.8	127.4	128.2	115.2	116.8	121.0
250	111.8	112.6	125.1	125.9	114.0	115.6	119.7
315	109.6	110.4	122.8	123.6	112.8	114.4	118.3
400	107.3	108.1	120.4	121.2	111.5	113.1	116.9
500	105.0	105.8	117.9	118.7	110.2	111.8	115.4
630	102.6	103.4	115.3	116.1	108.8	110.4	113.9
800	100.2	101.0	112.7	113.4	107.4	109.0	112.2
1000	97.7	98.5	109.9	110.7	105.9	107.5	110.4
1250	95.2	96.0	107.0	107.7	104.4	106.0	108.5
1600	92.6	93.4	103.8	104.6	102.8	104.3	106.4
2000	89.9	90.7	100.6	101.4	101.1	102.6	104.2
2500	87.1	87.9	97.6	98.3	99.3	100.9	102.1
3150	84.2	85.0	94.5	95.3	97.4	99.0	100.0
4000	81.2	81.8	91.3	91.9	95.4	96.6	97.5
5000	78.1	78.5	88.0	88.4	93.2	94.2	94.9
6300	74.8	75.1	84.5	84.8	90.9	91.6	92.1
8000	71.3	71.5	80.9	81.1	88.5	88.8	89.2
10000	67.7	67.7	77.2	77.2	85.8	85.8	86.1
12500	63.8	63.8	73.1	73.1	83.0	83.0	83.1
16000	59.7	59.7	68.8	68.8	79.9	79.9	79.8
20000	55.4	55.4	64.0	64.0	76.6	76.6	76.0
25000	50.8	50.8	58.8	58.8	73.0	73.0	71.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-135A APPROACH POWER
90 % RPM 1.75 EPR
AIRSPEED = 160 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 6.6-026-105-090176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

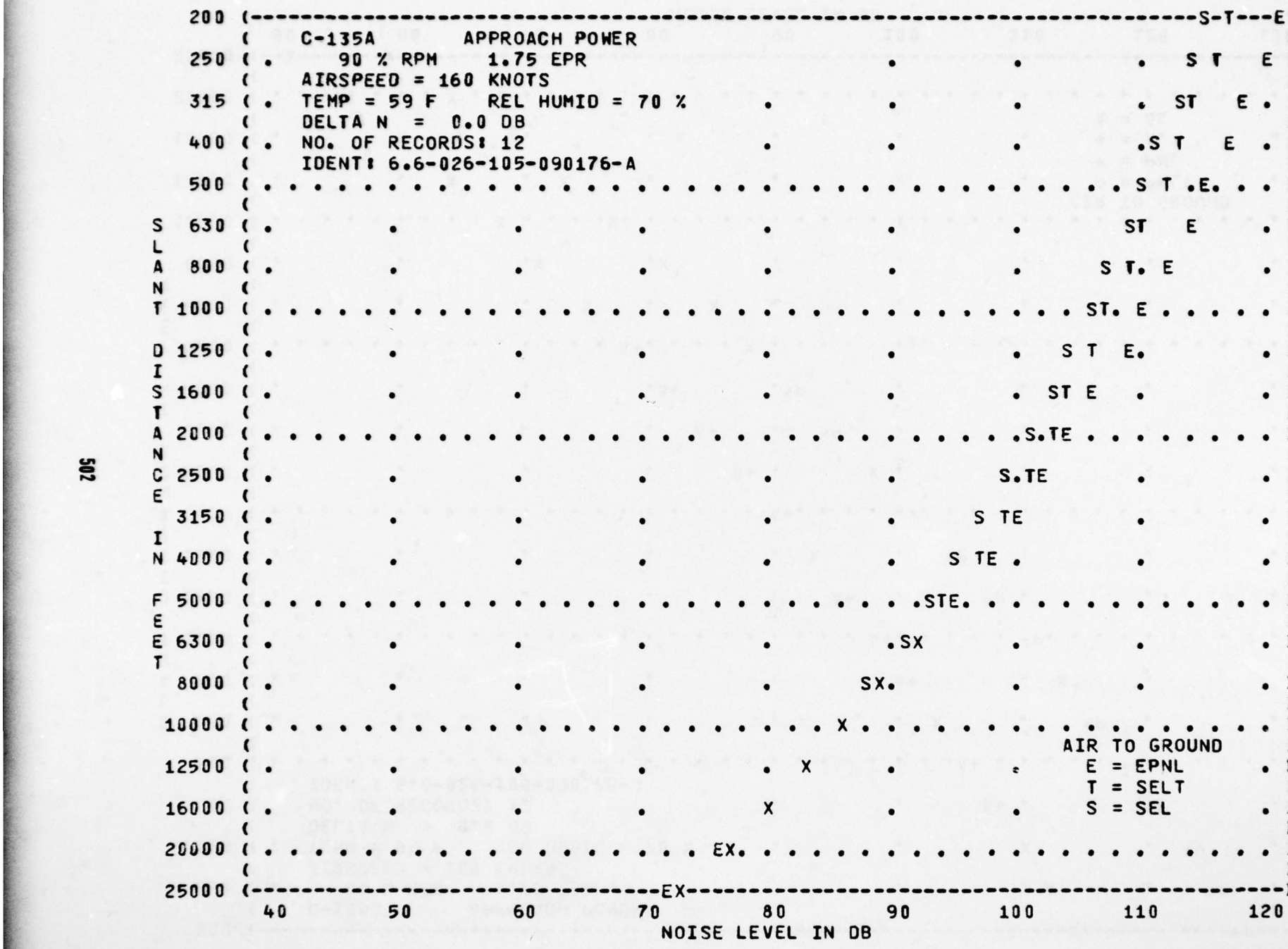

C-135A APPROACH POWER
90 % RPM 1.75 EPR
AIRSPEED = 160 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 6.6-026-105-090176-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

AIRCRAFT: C-135A

OPERATION: APPROACH POWER, 90 % RPM 1.75 EPR, AIRSPEED = 160 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

IDENTIFICATION: OMEGA 6.6, A/C CODE: 026, OPS CODE: 105, PROFILE VER: A, 09 JAN 76, PAGE L4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	84	80	81	89	96	99	96	98	97	101	99	100	99	99	98	98	98	97	97	96	94	93	97	90
250	82	78	79	87	94	97	94	96	95	99	97	98	97	97	96	95	96	95	94	94	91	91	94	86
315	80	76	77	85	92	94	92	94	93	97	95	96	95	94	93	93	93	93	92	91	89	88	91	83
400	78	74	75	83	90	92	89	91	91	95	93	94	93	92	91	91	91	90	90	88	86	85	88	78
500	76	72	73	81	88	90	87	89	89	93	91	92	91	90	89	89	89	88	87	86	83	81	84	73
630	74	70	71	79	85	87	84	87	87	90	89	89	88	88	87	86	86	86	84	83	80	78	79	68
800	72	68	69	77	82	85	82	84	85	88	87	87	86	86	85	84	84	83	82	79	76	74	74	61
1000	70	66	67	74	79	82	79	81	83	86	85	85	84	83	82	82	81	80	78	76	73	69	68<	54
1250	68	64	64	71	76	78	75	78	80	84	83	83	82	81	80	79	78	77	75	72	68	64	61	45
1600	66	60	61	67	73	75	72	74	77	82	80	80	79	79	77	76	75	74	71	67	63	57	53	34
2000	63	57	57	63	69	71	68	70	73	80	78	78	77	76	74	73	72	70	67	62	58	50	44	21
2500	59	53	53	59	65	67	64	66	69	76	76	76	74	73	71	70	69	66	62	56	51	42	32	5
3150	55	48	48	54	60	62	59	61	65	72	72	73	71	70	68	66	65	61	57	49	43	31	18	
4000	51	43	43	49	54	56	53	55	60	67	68	70	68	67	65	62	60	56	50	41	34	19	1	
5000	46	39	38	44	49	51	48	50	54	62	64	65	65	64	61	58	55	50	42	31	22	3		
6300	41	34	34	39	45	47	43	45	48	56	60	61	61	60	56	53	49	43	33	19	8			
8000	38	32	31	37	42	44	41	43	45	53	57	58	57	55	51	47	42	34	22	4				
10000	36	30	29	35	40	42	38	40	42	50	53	54	52	50	45	40	34	24	9					
12500	34	28	27	32	37	39	36	37	39	46	49	49	47	44	39	32	24	11						
16000	32	25	25	30	35	36	33	34	35	43	45	44	42	38	31	22	12							
20000	30	23	22	27	32	33	29	30	31	38	40	38	35	29	21	10								
25000	27	20	19	25	29	30	26	27	27	33	34	32	27	20	9									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-135A

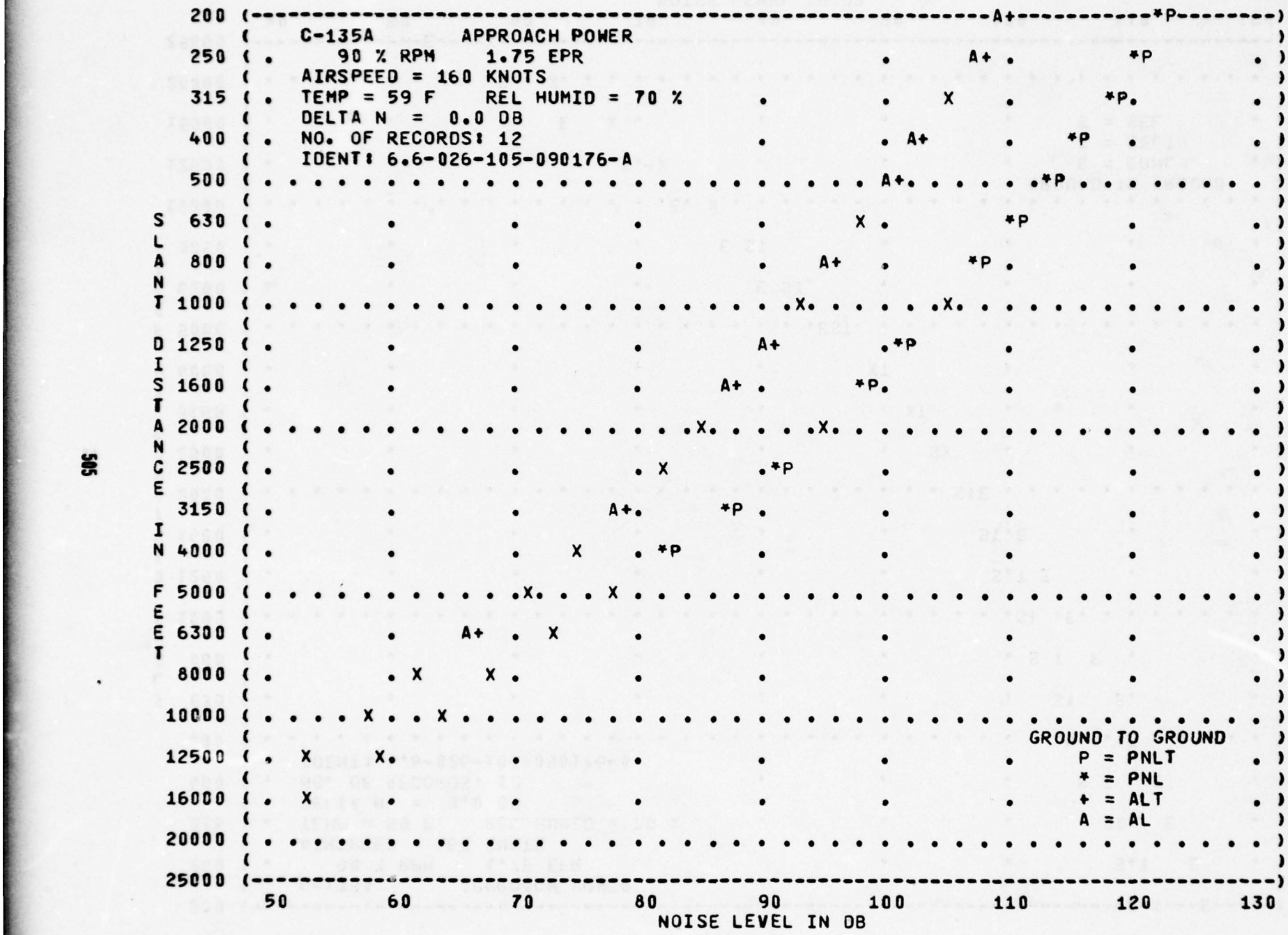
OPERATION:
APPROACH POWER
90 % RPM 1.75 EPR
AIRSPEED = 160 KNOTS

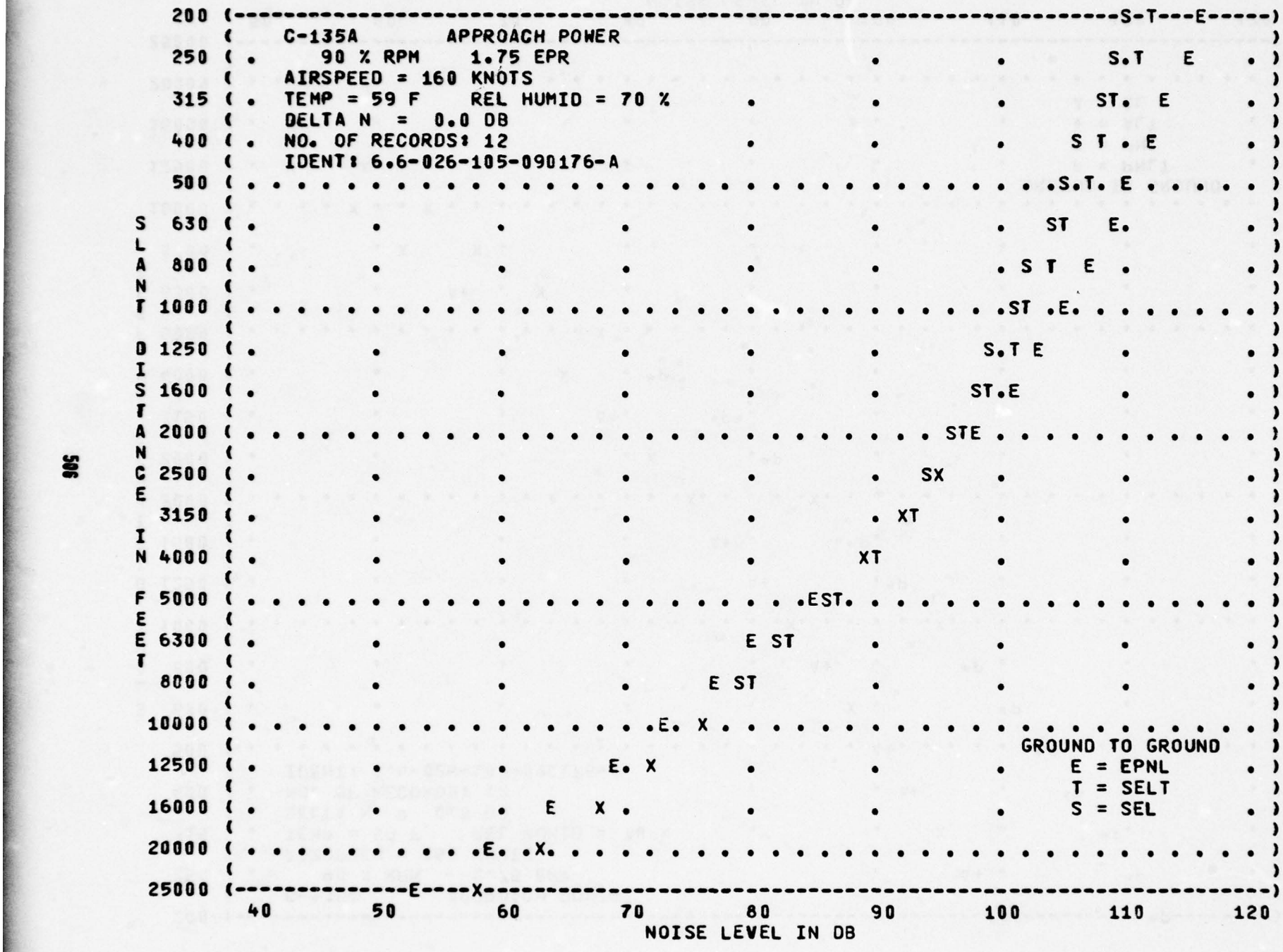
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 026
OPS CODE: 105
PROFILE VER: A
09 JAN 76
PAGE M4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	109.1	109.8	122.4	123.2	110.2	111.8	115.9
250	106.8	107.6	120.1	120.9	109.0	110.6	114.7
315	104.6	105.4	117.8	118.5	107.8	109.4	113.3
400	102.3	103.1	115.4	116.1	106.5	108.1	111.9
500	100.0	100.8	112.8	113.6	105.2	106.7	110.4
630	97.6	98.4	110.2	111.0	103.8	105.4	108.8
800	95.2	95.9	107.5	108.3	102.3	103.9	107.0
1000	92.7	93.4	104.6	105.4	100.8	102.4	105.1
1250	90.1	90.9	101.5	102.3	99.3	100.8	103.0
1600	87.4	88.2	98.2	98.9	97.6	99.2	100.7
2000	84.7	85.4	94.6	95.4	95.8	97.4	98.2
2500	81.6	82.4	90.8	91.6	93.8	95.4	95.3
3150	78.4	79.1	86.8	87.5	91.5	93.1	92.3
4000	74.7	75.3	82.4	83.1	88.9	90.2	88.7
5000	70.7	71.1	77.7	78.1	85.8	86.8	84.6
6300	66.3	66.6	72.6	72.9	82.4	83.1	80.2
8000	62.2	62.3	68.3	68.4	79.3	79.7	76.6
10000	57.7	57.7	63.7	63.7	75.9	75.9	72.7
12500	52.9	52.9	58.6	58.6	72.1	72.1	68.5
16000	47.7	47.7	53.2	53.2	67.8	67.8	64.2
20000	41.9	41.9	47.2	47.2	63.1	63.1	59.1
25000	35.6	35.6	39.7	39.7	57.8	57.8	52.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 12
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-135A APPROACH POWER
90 % RPM 1.75 EPR
AIRSPEED = 160 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 6.6-026-105-090176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB


C-135A APPROACH POWER
90 % RPM 1.75 EPR
AIRSPEED = 160 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 12
IDENT: 6.6-026-105-090176-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

USAF C-135A AIRCRAFT C-135A AIRCRAFT C-135A AIRCRAFT C-135A AIRCRAFT USAF

NOISE PRODUCED ON THE GROUND BY

C-135A AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-012-001
AIRCRAFT CODE: 026
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING	PAGE
IDLE 62% RPM	508 - 513
80% RPM	514 - 519
90% RPM	520 - 525
MAX PWR	526 - 531

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
- NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
- PERCEIVED NOISE LEVEL
- TONE-CORRECTED, PERCEIVED NOISE LEVEL
- A-WEIGHTED OVERALL SOUND LEVEL
- TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF C-135A AIRCRAFT C-135A AIRCRAFT C-135A AIRCRAFT C-135A AIRCRAFT USAF

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 01

NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. J57-P-59W
GROUND RUNUP

OPERATION:
IDLE, 62% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

AIRCRAFT CODE 026
OPERATION CODE 04013
PROFILE VERSION A
07 APR 76
PAGE C1

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	64	63	64	63	62	63	62	60	61	61	63	64	66	65	69	68	68	58	48
63	63	63	63	63	60	62	61	61	61	62	63	65	68	68	69	67	69	59	49
80	63	62	64	62	59	59	61	61	63	62	64	66	68	69	70	68	69	59	49
100	66	66	66	68	66	64	66	67	68	69	70	69	72	71	72	71	70	60	50
125	65	67	66	64	62	62	63	64	64	65	67	68	69	69	70	69	68	58	48
160	68	68	69	66	63	62	63	64	63	64	66	68	69	70	70	70	68	58	48
200	65	67	66	64	61	61	61	61	60	61	63	65	67	66	66	67	66	56	46
250	66	67	67	65	62	61	60	61	60	61	62	65	68	68	67	65	64	54	44
315	70	70	72	69	66	65	63	64	63	63	63	65	68	67	67	66	64	54	44
400	71	72	72	71	67	65	64	64	64	66	64	66	68	66	68	65	65	55	45
500	74	74	74	72	68	65	64	65	65	66	66	68	70	67	67	64	64	54	44
630	75	75	75	74	70	67	66	68	67	67	68	71	70	67	66	65	63	53	43
800	78	77	78	77	73	70	67	68	67	66	68	71	70	65	65	64	61	51	41
1000	82	81	81	82	79	75	73	81	77	76	76	74	73	69	72	68	66	56	46
1250	88	87	87	86	82	76	73	79	76	75	76	77	77	74	76	75	75	65	55
1600	82	82	83	84	81	74	73	71	70	70	70	72	75	70	68	65	63	53	43
2000	85	86	84	86	84	76	78	78	75	75	72	74	73	69	66	63	61	51	41
2500	84	82	80	81	78	70	72	73	72	69	69	71	71	66	63	61	58	48	38
3150	83	82	84	84	82	76	79	80	78	80	82	84	83	78	74	71	67	57	47
4000	79	81	83	81	78	69	72	75	76	79	82	83	83	79	76	74	72	62	52
5000	77	78	78	77	74	65	66	68	67	65	70	73	73	69	64	61	59	49	39
6300	74	75	75	74	71	63	65	67	67	67	72	75	75	70	65	61	58	48	38
8000	70	71	71	70	68	59	63	64	65	68	72	75	75	70	66	62	59	49	39
10000	64	65	64	65	62	53	57	58	59	61	67	70	69	65	60	56	53	43	33
OVERALL	93	93	93	93	90	84	86	87	85	86	87	89	89	85	84	82	81	71	61

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. J57-P-59W
GROUND RUNUP

OPERATION:
IDLE, 62% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 01
AIRCRAFT CODE 026
OPERATION CODE 04013
PROFILE VERSION A
07 APR 76
PAGE 01

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	107.4	107.4	108.2	107.7	105.0	99.3	101.2	102.1	101.1	101.9	104.2	105.7	105.7	101.6	99.5	97.0	95.2	85.0	74.7
250	105.2	105.2	105.9	105.5	102.8	97.0	98.9	99.6	98.8	99.6	101.8	103.4	103.3	99.2	97.1	94.7	92.9	82.7	72.3
315	102.9	102.9	103.5	103.1	100.4	94.7	96.6	97.5	96.4	97.3	99.4	101.0	100.9	96.8	94.7	92.2	90.5	80.2	69.8
400	100.5	100.6	101.1	100.7	98.0	92.2	94.2	95.1	94.0	94.8	96.9	98.5	98.4	94.2	92.1	89.7	87.9	77.7	67.2
500	98.0	98.1	98.6	98.1	95.5	89.7	91.6	92.5	91.4	92.2	94.3	95.9	95.8	91.5	89.5	87.0	85.3	75.0	64.4
630	95.4	95.6	95.9	95.5	92.9	87.0	88.9	89.8	88.7	89.5	91.5	93.2	93.1	88.5	86.6	84.2	82.5	72.1	61.5
800	92.7	92.9	93.0	92.7	90.2	84.2	86.1	87.0	85.9	86.6	88.6	90.2	90.1	85.5	83.6	81.2	79.4	69.0	58.2
1000	89.8	90.1	90.0	89.8	87.4	81.2	83.1	83.9	82.8	83.5	85.4	87.1	87.0	82.4	80.3	77.9	76.2	65.7	54.7
1250	86.7	87.0	86.7	86.8	84.4	77.9	79.8	80.6	79.4	80.2	82.0	83.7	83.6	79.0	76.8	74.4	72.7	62.0	50.8
1600	83.3	83.8	83.2	83.6	81.1	74.5	76.2	77.0	75.8	76.5	78.3	79.9	79.9	75.3	73.1	70.6	69.3	58.5	46.6
2000	79.9	80.3	79.7	80.1	77.7	71.0	72.4	73.1	71.8	72.5	74.2	75.8	75.8	71.2	69.1	67.1	65.9	54.9	42.5
2500	76.1	76.5	75.8	76.3	73.9	67.2	68.6	68.9	67.5	68.0	69.6	71.2	71.2	66.6	64.9	63.3	62.1	50.8	38.1
3150	72.1	72.3	71.6	72.1	69.6	62.9	64.3	64.6	63.2	63.8	64.5	66.1	66.1	61.4	60.7	59.2	57.9	46.2	32.3
4000	67.9	67.6	67.3	67.4	64.9	58.2	59.5	60.2	58.3	57.8	58.6	60.2	60.2	55.5	56.1	54.4	53.1	41.3	24.1
5000	63.2	62.8	62.6	62.2	59.6	52.8	54.8	55.7	53.1	52.4	52.8	53.8	54.5	50.2	50.9	49.2	48.0	34.9	16.2
6300	58.1	57.7	57.4	57.0	53.5	47.1	49.4	50.5	47.7	46.7	47.2	48.0	48.8	44.0	45.1	43.4	42.1	27.3	7.5
8000	52.7	52.2	51.9	51.5	47.2	40.8	43.4	45.2	41.8	40.6	41.2	41.5	42.2	37.2	38.3	36.7	35.3	17.4	
10000	46.1	45.5	45.3	44.6	39.9	33.4	36.1	38.0	34.3	33.5	33.8	34.0	34.7	29.4	31.2	29.1	27.6	7.4	
12500	38.0	37.4	37.1	36.5	31.0	23.7	27.3	29.9	26.0	23.9	25.2	23.7	23.7	18.7	18.8	15.8	13.6		
16000	27.5	26.5	25.8	24.4	17.3	7.0	13.2	17.0	10.5	7.9	9.1	8.8	10.9	3.9	6.4	2.6			
20000	7.3	7.9	7.9	12.4	3.7			4.1											
25000				.3															

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
CNG. J57-P-59W
GROUND RUNUP

OPERATION:
IDLE, 62% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 01
AIRCRAFT CODE 026
OPERATION CODE 04013
PROFILE VERSION A
07 APR 76
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	109.5	109.4	109.8	108.8	106.6	101.4	103.4	104.7	103.0	104.0	107.0	108.0	107.6	104.1	102.3	100.1	98.5	88.3	78.0
250	107.2	107.1	107.5	106.5	104.3	99.1	101.2	102.4	100.7	101.7	104.7	105.7	105.3	101.7	99.9	97.7	96.1	85.9	75.6
315	104.9	104.8	105.1	104.1	102.0	96.8	98.8	100.1	98.3	99.4	102.2	103.3	102.9	99.2	97.5	95.3	93.7	83.5	73.1
400	102.5	102.5	102.7	101.7	99.5	94.4	96.4	97.6	95.9	96.9	99.7	100.8	100.4	96.7	95.0	92.8	91.2	80.9	70.5
500	100.1	100.0	100.1	99.2	97.0	91.8	93.8	95.1	93.3	94.3	97.1	98.2	97.8	94.0	92.3	90.1	88.5	78.2	67.6
630	97.5	97.5	97.5	96.5	94.5	89.2	91.1	92.4	90.8	91.6	94.4	95.5	95.0	91.1	89.5	87.3	85.7	75.4	64.7
800	94.7	94.8	94.8	93.7	91.8	86.3	88.3	89.5	87.8	88.7	91.4	92.5	92.1	88.0	86.5	84.2	82.7	72.3	61.4
1000	91.8	92.0	91.8	90.9	89.0	83.3	85.3	86.5	84.7	85.7	88.3	89.4	89.0	84.9	83.2	81.0	79.5	69.0	57.9
1250	88.7	88.9	88.3	87.8	85.9	80.1	82.0	83.2	81.3	82.3	84.9	85.9	85.6	81.5	79.6	77.4	75.9	65.3	54.0
1500	85.4	85.7	84.7	84.6	82.7	76.8	78.4	79.6	77.8	78.6	81.1	82.2	81.8	77.8	76.0	73.6	72.6	61.8	49.9
2000	81.9	82.2	81.2	81.1	79.2	73.1	74.8	75.6	73.8	74.6	77.0	78.1	77.8	73.7	71.9	70.2	69.2	58.1	45.7
2500	78.1	78.4	77.4	77.3	75.4	69.3	70.8	71.5	69.5	70.1	72.5	73.5	73.2	69.1	67.7	66.4	65.4	54.1	41.4
3150	74.2	74.2	73.2	73.1	71.2	65.1	66.5	67.1	65.1	65.1	67.4	68.4	68.1	63.9	63.6	62.2	61.2	49.5	35.6
4000	69.5	69.2	68.6	68.2	66.2	59.9	61.3	62.3	59.8	59.5	60.9	62.1	61.8	57.5	58.4	56.8	55.8	43.9	26.7
5000	64.4	64.0	63.5	62.8	60.5	54.1	56.1	57.2	54.2	53.6	54.5	55.2	55.6	51.7	52.6	51.0	49.9	36.8	18.2
6300	58.9	58.4	58.0	57.4	54.1	48.0	50.3	51.6	48.4	47.6	48.4	48.9	49.6	45.0	46.2	44.7	43.4	28.6	8.8
8000	53.1	52.6	52.2	51.7	47.5	41.2	43.9	45.7	42.2	41.1	41.7	42.0	42.6	37.7	38.9	37.3	36.0	18.0	
10000	46.1	45.5	45.3	44.0	39.9	33.4	36.1	38.0	34.3	33.5	33.8	34.0	34.7	29.4	31.2	29.1	27.6	7.4	
12500	38.6	37.4	37.1	36.5	31.0	23.7	27.3	29.9	26.0	23.9	25.2	23.7	23.7	16.7	18.8	15.8	13.6		
16000	27.5	26.5	25.8	24.4	17.3	7.0	13.2	17.0	10.5	7.9	9.1	8.8	10.9	3.3	6.4	2.6			
20000	7.3	7.9	7.9	12.4	3.7			4.1											
25000				.3															

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DbA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. J57-P-59W
GROUND RUNUP

OPERATION:
IDLE, 62% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 01
AIRCRAFT CODE 026
OPERATION CODE 04013
PROFILE VERSION A
07 APR 76
PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	95.8	95.6	95.6	95.7	92.8	86.4	88.6	89.3	87.6	88.2	90.2	91.5	91.3	86.7	84.8	82.6	81.1	71.1	61.1
250	93.6	93.5	93.4	93.5	90.6	84.2	86.4	87.1	85.4	86.0	87.9	89.2	89.0	84.4	82.5	80.3	78.8	68.8	58.8
315	91.4	91.2	91.1	91.2	88.4	82.0	84.1	84.8	83.1	83.7	85.5	86.8	86.6	82.0	80.2	78.1	76.6	66.6	56.6
400	89.1	88.9	88.8	89.0	86.1	79.7	81.9	82.6	80.8	81.2	83.0	84.3	84.1	79.5	77.8	75.7	74.3	64.3	54.3
500	86.8	86.6	86.5	86.6	83.7	77.4	79.5	80.2	78.4	78.8	80.5	81.7	81.5	76.9	75.4	73.3	71.9	61.9	51.9
630	84.4	84.2	84.0	84.2	81.3	75.0	77.1	77.8	75.9	76.2	77.8	78.9	78.8	74.2	72.9	70.8	69.5	59.5	49.5
800	81.9	81.7	81.5	81.7	78.8	72.5	74.6	75.3	73.3	73.5	74.9	76.1	76.0	71.4	70.2	68.3	67.0	57.0	47.0
1000	79.4	79.1	78.9	79.0	76.1	69.9	72.1	72.7	70.6	70.6	71.9	73.0	73.0	68.4	67.5	65.6	64.4	54.4	44.4
1250	76.7	76.4	76.1	76.3	73.3	67.2	69.3	70.0	67.8	67.6	68.8	69.8	69.8	65.3	64.7	62.8	61.7	51.7	41.7
1600	73.8	73.5	73.2	73.4	70.4	64.3	66.5	67.1	64.9	64.5	65.5	66.4	66.5	62.0	61.7	60.0	58.8	48.8	38.8
2000	70.8	70.5	70.2	70.4	67.3	61.3	63.5	64.1	61.8	61.2	62.0	62.9	63.0	58.5	58.7	57.0	55.9	45.9	35.9
2500	67.6	67.3	66.9	67.1	64.0	58.2	60.3	61.0	58.5	57.8	58.4	59.1	59.3	55.1	55.5	53.8	52.8	42.8	32.8
3150	64.2	63.8	63.5	63.6	60.4	54.8	57.0	57.7	55.0	54.2	54.7	55.3	55.5	51.4	52.1	50.5	49.5	39.5	29.5
4000	60.5	60.1	59.7	59.9	56.5	51.1	53.3	54.1	51.4	50.4	50.9	51.3	51.5	47.5	48.5	46.9	45.9	35.9	25.9
5000	56.4	55.9	55.6	55.7	52.2	47.0	49.4	50.2	47.4	46.3	46.8	47.0	47.2	43.4	44.5	42.9	42.0	32.0	22.0
6300	51.8	51.4	51.1	51.1	47.6	42.6	45.0	46.0	43.0	41.9	42.5	42.5	42.7	38.9	40.2	38.5	37.6	27.6	17.6
8000	46.9	46.5	46.2	46.2	42.5	37.8	40.2	41.3	38.3	37.2	37.9	37.9	38.0	34.3	35.6	33.9	32.9	22.9	12.9
10000	41.5	41.0	40.8	40.7	36.9	32.6	34.9	36.1	33.1	32.1	32.8	32.8	32.9	29.2	30.5	28.7	27.6	17.6	7.6
12500	35.4	35.0	34.8	34.6	30.7	26.8	28.9	30.2	27.3	26.3	27.1	27.3	27.3	23.8	24.8	22.9	21.8	11.8	1.8
16000	28.6	28.3	28.2	27.8	23.9	20.3	22.0	23.5	20.8	20.0	20.7	21.2	21.3	17.9	18.7	16.7	15.5	5.5	
20000	21.2	21.0	21.0	20.5	16.5	13.2	14.3	15.9	13.5	13.0	13.7	14.6	14.8	11.7	12.2	10.2	9.1		
25000	13.4	13.3	13.4	12.5	8.4	5.6	5.9	7.4	5.6	5.6	6.2	7.5	8.1	5.3	5.7	3.8	2.8		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. J57-P-59W
GROUND RUNUP

OPERATION:
IDLE, 62% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 01
AIRCRAFT CODE 026
OPERATION CODE 04013
PROFILE VERSION A
07 APR 76
PAGE G1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	97.8	97.6	97.2	96.7	94.4	88.5	90.8	91.8	89.5	90.4	93.1	93.8	93.3	89.2	87.6	85.6	84.3	74.3	64.3
250	95.7	95.4	95.0	94.5	92.2	86.3	88.6	89.6	87.3	88.1	90.7	91.4	91.0	86.9	85.4	83.4	82.1	72.1	62.1
315	93.4	93.1	92.7	92.3	90.0	84.1	86.4	87.4	85.0	85.8	88.4	89.0	88.6	84.5	83.1	81.1	79.9	69.9	59.9
400	91.2	90.9	90.4	90.0	87.7	81.8	84.1	85.1	82.7	83.4	85.9	86.5	86.1	82.0	80.7	78.8	77.6	67.6	57.6
500	88.8	88.5	88.1	87.6	85.3	79.5	81.8	82.8	80.3	80.9	83.3	83.9	83.5	79.4	78.2	76.4	75.2	65.2	55.2
630	86.5	86.1	85.6	85.2	82.9	77.1	79.3	80.4	77.8	78.3	80.6	81.2	80.8	76.7	75.7	73.9	72.7	62.7	52.7
800	84.0	83.6	83.1	82.7	80.3	74.6	76.9	77.8	75.2	75.6	77.8	78.4	78.0	73.9	73.1	71.3	70.2	60.2	50.2
1000	81.4	81.0	80.4	80.1	77.7	72.0	74.3	75.2	72.5	72.7	74.8	75.3	74.9	70.9	70.4	68.7	67.6	57.6	47.6
1250	78.7	78.3	77.7	77.3	74.9	69.3	71.6	72.5	69.7	69.7	71.6	72.1	71.8	67.8	67.5	65.9	64.9	54.9	44.9
1600	75.8	75.4	74.8	74.4	72.0	66.5	68.7	69.7	66.8	66.6	68.3	68.7	68.4	64.5	64.6	63.0	62.1	52.1	42.1
2000	72.8	72.4	71.7	71.4	68.8	63.5	65.7	66.7	63.7	63.3	64.8	65.1	64.9	61.1	61.5	60.0	59.2	49.2	39.2
2500	69.6	69.2	68.5	68.1	65.5	60.3	62.6	63.6	60.4	59.9	61.2	61.4	61.3	57.6	58.3	56.9	56.1	46.1	36.1
3150	66.2	65.7	65.1	64.7	61.9	56.9	59.2	60.2	57.0	56.3	57.5	57.6	57.5	53.9	55.0	53.6	52.8	42.8	32.8
4000	62.1	61.6	61.0	60.7	57.7	52.8	55.1	56.1	52.9	52.1	53.1	53.1	53.1	49.5	50.8	49.3	48.5	38.5	28.5
5000	57.6	57.1	56.6	56.3	53.2	48.3	50.7	51.8	48.5	47.6	48.5	48.4	48.4	44.8	46.2	44.8	43.9	33.9	23.9
6300	52.7	52.2	51.7	51.5	48.2	43.4	45.9	47.0	43.8	42.8	43.6	43.4	43.5	39.9	41.3	39.8	38.9	28.9	18.9
8000	47.5	46.9	46.5	46.4	42.8	38.3	40.7	41.9	38.7	37.7	38.4	38.3	38.4	34.8	36.1	34.5	33.5	23.5	13.5
10000	41.5	41.0	40.8	40.7	36.9	32.6	34.9	36.1	33.1	32.1	32.8	32.8	32.9	29.2	30.5	28.7	27.6	17.6	7.6
12500	35.4	35.0	34.8	34.6	30.7	26.8	28.9	30.2	27.3	26.3	27.1	27.3	27.3	23.8	24.8	22.9	21.8	11.8	1.8
16000	28.6	28.3	28.2	27.8	23.9	20.3	22.0	23.5	20.6	20.0	20.7	21.2	21.3	17.9	18.7	16.7	15.5	5.5	
20000	21.2	21.0	21.0	20.5	16.5	13.2	14.3	15.9	13.5	13.0	13.7	14.6	14.8	11.7	12.2	10.2	9.1		
25000	13.4	13.3	13.4	12.5	8.4	5.6	6.9	7.4	5.6	5.6	6.2	7.5	8.1	5.3	5.7	3.8	2.8		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

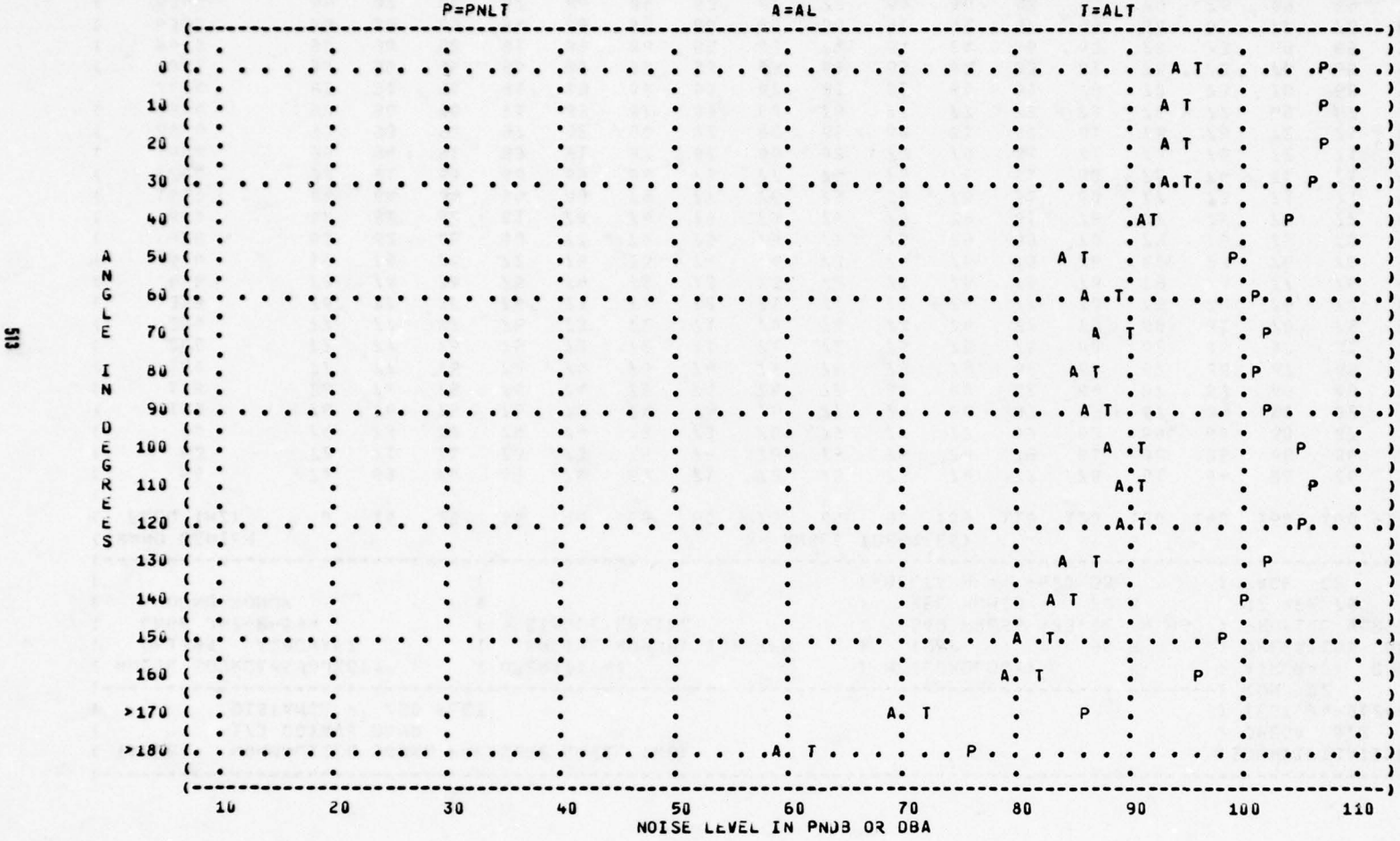
NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. JT7-P-59W
GROUND RUNUP

OPERATION:
IDLE, 62% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 01
AIRCRAFT CODE 026
OPERATION CODE 04013
PROFILE VERSION A
07 APR 76
PAGE J1

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 02
AIRCRAFT CODE 026
OPERATION CODE 04019
PROFILE VERSION A
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PAGE C2

NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. J57-P-59W
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -6.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	70	69	70	69	70	69	71	72	73	73	74	77	78	81	84	86	86	76	66
63	72	71	71	73	73	74	74	76	76	76	78	79	81	83	85	86	86	76	66
80	74	73	73	74	74	73	73	75	75	77	77	80	82	85	88	88	87	77	67
100	76	76	76	76	75	74	74	76	77	79	80	82	85	87	89	90	88	78	68
125	76	76	76	76	74	75	74	76	77	80	80	82	84	87	89	89	85	75	65
160	77	77	76	76	74	75	74	75	76	79	79	82	84	87	88	87	85	75	65
200	77	77	76	75	72	72	71	71	72	75	75	78	80	82	84	83	81	71	61
250	77	77	77	76	73	72	71	70	70	73	74	77	79	80	81	78	79	69	59
315	78	77	77	75	73	71	72	71	71	71	74	77	78	79	79	78	77	67	57
400	78	78	78	75	74	71	73	73	72	73	76	78	78	79	78	77	76	66	56
500	79	78	78	77	75	73	74	74	73	74	78	79	78	80	77	76	76	66	56
630	83	82	82	80	77	75	75	75	75	75	79	80	78	79	76	75	73	63	53
800	82	81	82	81	78	76	75	75	75	75	79	81	78	77	75	73	72	62	52
1000	84	84	84	84	80	79	77	76	75	75	78	81	80	77	73	71	71	61	51
1250	93	91	88	88	85	80	78	77	75	76	78	81	80	78	74	71	71	61	51
1600	95	94	91	93	91	87	87	86	82	79	79	81	81	78	75	72	71	61	51
2000	93	93	93	97	92	90	92	90	86	82	81	82	81	78	75	72	71	61	51
2500	90	90	90	91	89	87	83	80	78	77	77	79	78	76	72	69	67	57	47
3150	92	91	91	91	89	88	88	87	83	81	80	81	79	77	73	70	66	56	46
4000	95	95	95	96	95	93	93	93	89	86	82	83	81	78	73	70	65	55	45
5000	90	90	90	91	89	88	86	86	84	84	84	86	83	78	73	69	65	55	45
6300	88	89	89	89	88	86	85	86	88	91	91	97	95	88	81	77	73	63	53
8000	86	87	86	87	86	84	83	82	79	80	80	83	83	79	73	69	64	54	44
10000	80	82	81	81	81	78	77	76	75	76	76	79	77	72	68	64	58	48	38
OVERALL	102	102	101	102	100	98	98	97	95	95	95	99	98	96	96	96	94	84	74

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 02
AIRCRAFT CODE 026
OPERATION CODE 04019
PROFILE VERSION A
07 APR 76
PAGE D2

NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. JT7-P-59W
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	118.4	118.2	118.1	118.9	117.0	115.2	114.9	114.5	111.6	111.6	111.6	116.1	114.4	110.4	106.4	103.9	100.9	90.7	80.2
250	116.1	115.9	115.8	116.5	114.7	112.8	112.5	112.1	109.3	109.1	109.2	113.6	111.9	107.9	104.0	101.5	98.6	88.2	77.7
315	113.6	113.4	113.3	114.1	112.2	110.3	110.0	109.6	106.8	106.5	106.5	110.9	109.3	105.4	101.5	99.1	96.2	85.7	75.2
400	111.1	110.9	110.8	111.5	109.6	107.8	107.5	107.1	104.2	103.7	103.8	108.1	106.5	102.7	98.9	96.5	93.9	83.1	72.6
500	108.4	108.2	108.1	108.8	106.9	105.1	104.8	104.3	101.5	100.8	100.8	105.1	103.5	99.9	96.2	93.8	91.5	80.5	69.8
630	105.6	105.3	105.2	106.0	104.0	102.2	101.9	101.4	98.6	97.6	97.7	101.9	100.3	96.8	93.2	91.4	89.0	77.9	67.1
800	102.5	102.3	102.2	102.9	100.9	99.1	98.8	98.3	95.5	94.2	94.3	98.4	96.9	93.5	90.0	88.6	86.2	75.0	64.4
1000	99.3	99.0	98.8	100.0	97.6	95.7	95.4	95.0	92.1	90.8	90.5	94.6	93.1	89.8	86.6	85.5	83.0	72.1	61.4
1250	95.7	95.4	95.2	96.9	93.9	92.1	92.3	91.3	88.4	87.1	86.4	90.3	88.9	85.9	83.4	82.0	79.7	69.0	58.0
1500	92.4	91.7	91.5	93.5	90.0	88.2	88.9	87.5	84.4	83.0	82.5	85.7	84.3	82.0	80.0	78.3	76.2	65.6	54.2
2000	88.9	88.2	88.0	89.9	86.3	84.5	85.3	83.9	80.7	78.7	78.8	80.9	79.9	78.3	76.3	74.6	72.9	62.2	50.2
2500	85.1	84.4	84.0	86.0	82.3	80.5	81.3	79.8	76.6	74.6	74.7	76.8	75.8	74.3	72.2	70.6	69.1	58.1	45.5
3150	81.0	80.2	79.7	81.7	77.9	76.0	76.9	75.4	72.1	70.0	70.2	72.2	71.3	69.9	67.7	66.3	64.8	53.3	40.3
4000	76.4	75.7	74.8	76.8	73.0	71.1	72.0	70.4	67.1	64.9	65.2	67.2	66.3	65.0	62.6	61.3	59.8	47.7	33.2
5000	71.4	70.6	69.4	71.5	67.6	65.6	66.5	64.9	61.6	59.2	59.7	61.8	61.0	59.7	57.3	56.0	54.5	41.9	25.3
6300	65.9	65.1	63.4	65.4	61.9	59.3	60.3	58.6	55.1	52.9	53.8	56.0	55.2	54.1	51.6	50.1	48.6	34.3	12.2
8000	59.9	59.0	57.3	58.8	55.7	52.5	53.4	51.7	48.4	45.5	48.3	51.2	49.5	49.4	46.8	45.4	43.7	28.3	
10000	53.2	52.3	50.6	51.6	48.7	44.8	45.3	43.3	39.4	38.4	42.6	45.1	43.5	44.0	41.5	40.0	38.6	20.0	
12500	45.7	43.5	41.8	42.5	39.0	34.9	34.6	33.5	32.2	31.6	36.1	38.2	36.7	37.9	35.5	33.5	31.0	9.4	
16000	36.2	34.6	33.8	32.8	27.2	21.9	23.2	22.7	21.1	21.4	28.3	30.2	29.1	30.1	27.0	24.8	22.7		
20000	25.5	24.1	22.8	19.5	11.2	8.9	9.8	7.0	6.9	7.3	17.2	20.1	19.0	20.2	16.1	13.3	10.5		
25000	8.3	7.0	11.7	6.3							6.1	10.0	8.9	7.4	5.2	1.7			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 02

NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. JT7-P-59W
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

AIRCRAFT CODE 026
OPERATION CODE 04019
PROFILE VERSION A
07 APR 76
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	119.8	119.8	119.7	120.0	118.8	116.6	117.6	117.1	113.8	113.1	113.2	118.2	116.3	112.0	107.8	105.3	102.3	92.1	81.6
250	117.4	117.4	117.4	118.2	116.4	114.2	115.2	114.7	111.4	110.6	110.7	115.7	113.8	109.6	105.4	103.0	100.0	89.7	79.1
315	115.0	115.0	114.9	115.8	114.0	111.7	112.7	112.2	108.9	108.0	108.1	113.1	111.2	107.0	102.9	100.5	97.6	87.2	76.6
400	112.5	112.4	112.4	113.2	111.4	109.2	110.2	109.6	106.4	105.2	105.3	110.3	108.4	104.4	100.3	97.9	95.3	84.6	74.0
500	109.8	109.7	109.7	110.5	108.7	106.4	107.4	106.9	103.6	102.2	102.4	107.3	105.5	101.5	97.6	95.2	92.9	81.9	71.2
630	106.9	106.9	106.8	107.7	105.8	103.5	104.6	104.0	100.7	99.4	99.2	104.0	102.3	98.5	94.6	92.8	90.4	79.3	68.5
800	103.9	103.8	103.7	104.6	102.7	100.5	101.5	100.9	97.6	95.6	95.8	100.5	98.8	95.1	91.4	90.1	87.6	76.4	65.8
1000	100.6	100.5	100.4	101.7	99.4	97.1	98.1	97.6	94.3	92.3	92.0	96.7	95.0	91.5	88.0	86.9	84.5	73.5	62.8
1250	97.0	96.9	96.8	98.6	95.7	93.4	95.0	93.9	90.6	88.6	88.0	92.5	90.8	87.6	84.8	83.4	81.1	70.4	59.4
1600	93.7	93.3	93.2	95.3	91.7	89.6	91.6	90.1	86.6	84.5	84.1	87.8	86.3	83.7	81.4	79.7	77.7	67.0	55.6
2000	90.2	89.7	89.6	91.6	88.1	85.9	88.0	86.5	82.9	80.2	80.3	83.0	81.9	80.0	77.7	76.0	74.3	63.6	51.6
2500	86.4	85.9	85.8	87.7	84.8	81.8	84.8	82.4	78.8	76.0	76.2	78.9	77.7	75.9	73.6	72.1	70.5	59.5	46.9
3150	82.3	81.8	81.2	83.4	79.6	77.4	79.6	78.0	74.3	71.4	71.7	74.4	73.2	71.6	69.1	67.7	66.2	54.7	41.7
4000	77.5	76.9	76.1	78.2	74.4	72.2	74.2	72.5	68.8	66.0	66.4	68.9	67.9	66.4	63.7	62.4	60.9	48.8	34.4
5000	72.2	71.5	70.4	72.5	68.7	66.4	68.1	66.5	62.9	60.1	60.6	63.1	62.2	60.7	58.1	56.8	55.3	42.7	26.1
6300	66.4	65.7	64.6	66.1	62.6	59.8	61.3	59.6	56.0	53.5	54.4	56.9	56.0	54.8	52.2	50.7	49.2	34.8	12.7
8000	60.2	59.3	57.7	59.1	56.1	52.8	53.9	52.2	48.8	45.8	48.6	51.6	49.9	49.7	47.1	45.6	44.0	28.6	
10000	53.2	52.3	50.6	51.6	48.7	44.8	45.3	43.5	39.4	38.4	42.6	45.1	43.5	44.0	41.5	40.0	38.6	20.0	
12500	45.7	43.5	41.8	42.5	39.0	34.9	34.0	33.5	32.2	31.6	36.1	38.2	36.7	37.9	35.5	33.5	31.0	9.4	
16000	36.2	34.6	33.8	32.8	27.2	21.9	23.2	22.7	21.1	21.4	28.3	30.2	29.1	30.1	27.0	24.8	22.7		
20000	29.5	24.1	22.8	19.5	11.2	8.9	9.8	7.0	6.9	7.3	17.2	20.1	19.0	20.2	16.1	13.3	10.5		
25000	8.3	7.0	11.7	0.3							6.1	10.0	8.9	7.4	5.2	1.7			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 02
AIRCRAFT CODE 026
OPERATION CODE 04019
PROFILE VERSION A
07 APR 76
PAGE F2

NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. J57-P-59W
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	105.1	104.5	104.1	105.6	103.1	101.1	101.1	100.2	97.3	96.9	96.4	101.0	98.9	94.1	89.9	87.6	85.4	75.4	65.4
250	102.9	102.2	101.8	103.3	100.7	98.8	98.8	97.9	94.9	94.4	93.9	98.5	96.3	91.7	87.6	85.4	83.2	73.2	63.2
315	100.5	99.9	99.5	100.9	98.3	96.4	96.4	95.5	92.4	91.8	91.4	95.8	93.6	89.2	85.3	83.1	81.1	71.1	61.1
400	98.2	97.5	97.0	98.5	95.9	93.9	94.0	93.0	89.9	89.1	88.7	92.9	90.8	86.6	82.9	80.8	78.8	68.8	58.8
500	95.7	95.0	94.5	96.0	93.3	91.3	91.4	90.4	87.2	86.2	85.8	89.9	87.9	83.9	80.4	78.4	76.6	66.6	56.6
630	93.1	92.4	91.8	93.4	90.6	88.6	88.7	87.7	84.3	83.2	82.9	86.7	84.7	81.1	77.8	76.0	74.2	64.2	54.2
800	90.5	89.7	89.0	90.7	87.8	85.8	85.9	84.8	81.4	80.0	79.8	83.3	81.4	78.3	75.2	73.5	71.8	61.8	51.8
1000	87.7	86.8	86.1	87.8	84.9	82.7	83.0	81.8	78.2	76.7	76.6	79.7	78.0	75.4	72.5	70.8	69.3	59.3	49.3
1250	84.8	83.9	83.1	84.8	81.8	79.6	79.9	78.6	75.0	73.2	73.4	76.1	74.6	72.4	69.7	68.1	66.6	56.6	46.6
1500	81.8	80.7	79.9	81.7	78.5	76.2	76.6	75.2	71.6	69.7	70.2	72.6	71.2	69.5	66.8	65.3	63.9	53.9	43.9
2000	78.6	77.5	76.5	78.3	75.0	72.7	73.1	71.7	68.0	66.1	67.0	69.2	67.9	66.5	63.9	62.3	61.0	51.0	41.0
2500	75.2	74.0	72.9	74.7	71.4	68.9	69.4	67.9	64.3	62.4	63.7	65.8	64.5	63.3	60.6	59.1	57.9	47.9	37.9
3150	71.5	70.3	69.1	70.8	67.5	64.9	65.4	63.9	60.4	58.6	60.3	62.4	61.1	59.9	57.2	55.6	54.4	44.4	34.4
4000	67.6	66.3	65.0	66.6	63.2	60.6	61.0	59.5	56.2	54.6	56.6	58.7	57.3	56.2	53.3	51.8	50.6	40.6	30.6
5000	63.2	61.9	60.5	62.0	58.6	55.9	56.2	54.8	51.7	50.3	52.5	54.7	53.2	52.1	49.1	47.6	46.4	36.4	26.4
6300	58.4	57.0	55.6	56.8	53.5	50.7	50.8	49.5	46.7	45.6	48.1	50.3	48.8	47.7	44.6	43.1	42.0	32.0	22.0
8000	53.2	51.7	50.3	51.2	48.0	45.2	45.0	43.9	41.0	40.9	43.8	45.9	44.4	43.5	40.7	39.3	38.1	28.1	18.1
10000	47.4	45.9	44.7	45.1	41.9	39.2	38.8	38.0	36.3	35.9	39.1	41.2	39.6	39.1	36.5	35.2	34.0	24.0	14.0
12500	41.0	39.6	38.6	38.5	35.4	32.9	32.4	31.8	30.8	30.7	34.1	36.0	34.5	34.4	32.1	30.9	29.7	19.7	9.7
16000	34.1	32.9	32.2	31.7	28.6	26.4	26.0	25.6	25.0	25.1	28.7	30.4	29.0	29.3	27.4	26.4	25.1	15.1	5.1
20000	26.8	25.9	25.5	24.5	21.5	19.6	19.5	19.2	18.9	19.1	22.7	24.3	23.2	23.9	22.6	21.8	20.4	10.4	.4
25000	19.3	18.6	18.3	17.1	14.3	12.5	12.8	12.6	12.4	12.8	16.2	17.7	17.1	18.3	17.8	17.2	15.6	5.6	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 02
AIRCRAFT CODE 026
OPERATION CODE 04019
PROFILE VERSION A
07 APR 76
PAGE G2

NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. J57-P-59W
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -6.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	106.5	106.1	105.7	107.3	104.8	102.5	103.8	102.8	99.5	98.4	97.9	103.2	100.8	95.8	91.3	89.0	86.8	76.8	66.8
250	104.2	103.8	103.4	105.0	102.5	100.2	101.5	100.5	97.1	95.9	95.5	100.6	98.3	93.4	89.0	86.8	84.6	74.6	64.6
315	101.9	101.4	101.1	102.7	100.1	97.8	99.1	98.1	94.6	93.3	92.9	97.9	95.6	90.9	86.7	84.5	82.5	72.5	62.5
400	99.5	99.0	98.6	100.2	97.6	95.3	96.6	95.6	92.0	90.6	90.2	95.1	92.8	88.3	84.3	82.2	80.3	70.3	60.3
500	97.0	96.5	96.1	97.7	95.1	92.7	94.1	93.0	89.3	87.7	87.4	92.0	89.8	85.5	81.8	79.9	78.0	68.0	58.0
630	94.5	93.9	93.4	95.1	92.4	90.0	91.4	90.3	86.5	84.7	84.4	88.8	86.7	82.8	79.2	77.4	75.6	65.6	55.6
800	91.8	91.2	90.8	92.4	89.8	87.1	88.6	87.4	83.5	81.5	81.3	85.4	83.4	80.0	76.6	74.9	73.2	63.2	53.2
1000	89.1	88.4	87.7	89.6	86.5	84.1	85.7	84.4	80.4	78.1	78.2	81.9	80.0	77.0	73.9	72.3	70.7	60.7	50.7
1250	86.2	85.4	84.7	86.6	83.5	81.0	82.6	81.2	77.1	74.7	74.9	78.3	76.5	74.1	71.1	69.5	68.0	58.0	48.0
1500	83.1	82.3	81.5	83.4	80.3	77.6	79.3	77.8	73.7	71.1	71.7	74.7	73.1	71.1	68.2	66.7	65.3	55.3	45.3
2000	79.9	79.0	78.1	80.0	76.8	74.1	75.8	74.3	70.2	67.5	68.5	71.3	69.8	68.1	65.3	63.7	62.4	52.4	42.4
2500	76.5	75.6	74.5	76.4	73.1	70.3	72.1	70.5	66.5	63.8	65.2	68.0	66.5	65.0	62.0	60.5	59.3	49.3	39.3
3150	72.9	71.9	70.7	72.6	69.2	66.3	68.1	66.5	62.6	60.1	61.8	64.5	63.0	61.6	58.5	57.0	55.8	45.8	35.8
4000	68.7	67.5	66.3	68.0	64.7	61.7	63.1	61.6	58.0	55.8	57.8	60.4	58.9	57.5	54.4	52.9	51.7	41.7	31.7
5000	64.1	62.8	61.4	63.0	59.7	56.7	57.8	56.4	53.0	51.1	53.4	56.0	54.4	53.1	50.0	48.4	47.3	37.3	27.3
6300	59.6	57.6	56.2	57.5	54.2	51.3	51.9	50.6	47.5	46.1	48.7	51.1	49.5	48.3	45.2	43.7	42.6	32.6	22.6
8000	53.5	52.0	50.7	51.5	48.3	45.5	45.6	44.5	42.0	41.2	44.1	46.3	44.7	43.9	41.0	39.5	38.4	28.4	18.4
10000	47.4	45.9	44.7	45.1	41.9	39.2	38.8	38.0	36.3	35.9	39.1	41.2	39.6	39.1	36.5	35.2	34.0	24.0	14.0
12500	41.0	39.6	38.6	38.5	35.4	32.9	32.4	31.8	30.8	30.7	34.1	36.0	34.5	34.4	32.1	30.9	29.7	19.7	9.7
16000	34.1	32.9	32.2	31.7	28.6	26.4	26.0	25.6	25.0	25.1	28.7	30.4	29.0	29.3	27.4	26.4	25.1	15.1	5.1
20000	26.8	25.9	25.5	24.5	21.5	19.6	19.5	19.2	18.9	19.1	22.7	24.3	23.2	23.9	22.6	21.8	20.4	10.4	.4
25000	19.3	18.6	18.3	17.1	14.3	12.5	12.8	12.6	12.4	12.8	16.2	17.7	17.1	18.3	17.8	17.2	15.6	5.6	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

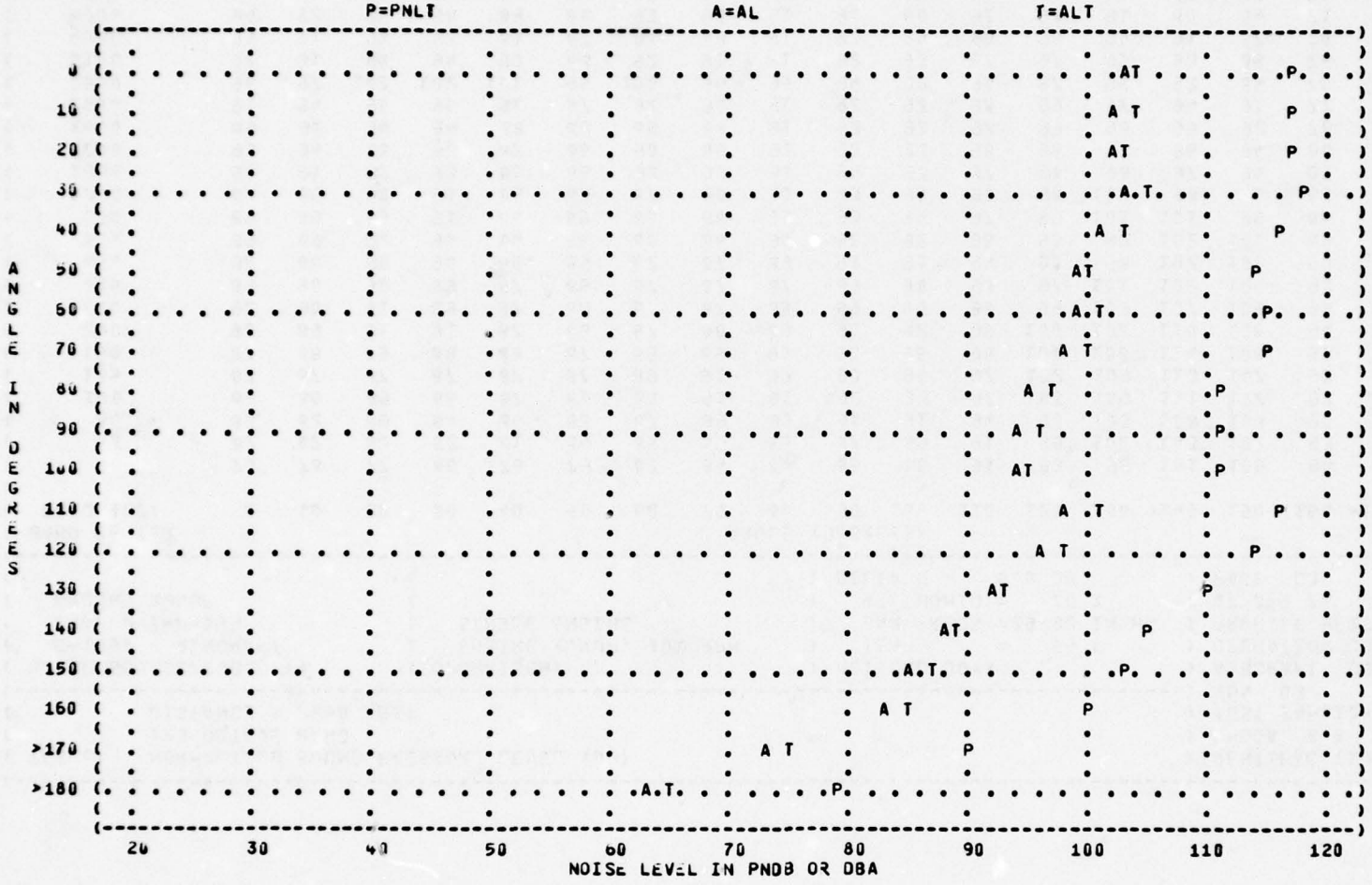
DISTANCE = 2500 FEET

NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. J57-P-59W
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 02
AIRCRAFT CODE 026
OPERATION CODE 04019
PROFILE VERSION A
07 APR 76
PAGE J2



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 03
AIRCRAFT CODE 026
OPERATION CODE 01017
PROFILE VERSION A
07 APR 76
PAGE C3

NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. J57-P-59W
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	78	78	77	80	78	79	82	84	84	85	86	91	93	96	101	100	94	84	74
63	82	82	82	83	81	84	85	85	85	87	89	91	98	102	103	102	93	83	73
80	85	82	86	84	84	85	87	89	90	91	91	94	98	103	108	103	90	80	70
100	86	86	89	88	87	86	89	91	91	92	93	97	103	109	111	107	92	82	72
125	87	87	87	87	87	87	89	91	92	93	94	97	102	109	113	107	93	83	73
160	87	88	89	89	88	87	89	89	90	93	95	98	101	108	114	108	95	85	75
200	90	89	91	91	87	86	87	88	89	90	92	95	100	102	110	106	94	84	74
250	92	90	91	89	87	86	87	87	88	89	90	93	99	103	107	106	94	84	74
315	89	90	90	89	87	86	87	87	87	89	90	93	97	101	102	104	93	83	73
400	90	88	90	90	86	85	87	87	89	91	91	94	98	98	102	102	90	80	70
500	89	89	90	90	86	85	88	88	90	92	92	96	98	99	102	101	88	78	68
630	89	89	90	91	86	85	88	88	91	93	94	97	99	101	101	99	86	76	66
800	88	89	90	91	86	84	87	88	90	93	94	98	98	100	98	96	83	73	63
1000	90	91	92	93	88	86	91	90	93	94	93	97	98	98	97	94	81	71	61
1250	93	94	93	93	87	85	90	89	92	93	93	98	98	97	96	94	80	70	60
1600	89	91	94	94	88	86	89	88	91	93	93	98	99	98	95	92	78	68	58
2000	91	94	95	95	91	87	92	90	91	92	93	98	99	97	94	91	77	67	57
2500	98	97	102	102	101	95	100	96	95	94	92	96	97	95	92	89	75	65	55
3150	92	91	94	94	90	88	92	91	91	92	93	97	97	95	93	89	76	66	56
4000	93	91	94	93	88	87	91	89	91	93	94	98	96	94	91	87	76	66	56
5000	94	92	95	94	89	88	93	90	91	91	88	92	93	91	88	84	71	61	51
6300	90	86	89	89	84	83	88	86	88	91	88	91	91	90	87	83	71	61	51
8000	89	87	89	89	86	84	89	87	90	94	92	96	95	92	88	84	72	62	52
10000	84	80	83	83	80	77	82	80	82	85	84	89	89	87	83	79	67	57	47
OVERALL	104	104	106	106	104	101	104	103	104	106	106	110	112	116	120	116	103	93	83

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. J57-P-59W
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 03
AIRCRAFT CODE 026
OPERATION CODE 01017
PROFILE VERSION A
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PAGE D3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	121.2	120.1	123.2	123.5	121.1	117.2	121.5	119.1	119.8	120.6	120.7	124.7	125.4	125.2	126.6	123.1	110.4	100.3	90.0
250	119.0	117.9	121.3	121.3	118.9	115.0	119.3	116.8	117.0	118.3	118.4	122.4	123.1	123.0	124.5	121.0	108.3	98.2	87.8
315	116.6	115.6	119.0	119.0	116.6	112.7	117.0	114.5	115.2	115.9	116.0	120.0	120.8	120.7	122.4	118.8	106.2	96.0	85.5
400	114.2	113.2	116.6	116.6	114.2	110.3	114.6	112.2	112.9	113.4	113.5	117.5	118.4	118.4	120.1	116.6	104.0	93.7	83.2
500	111.7	110.7	114.1	114.1	111.7	107.8	112.1	109.7	110.4	110.9	110.9	114.9	115.9	115.9	117.7	114.4	101.6	91.4	80.8
630	109.1	108.1	111.5	111.5	109.1	105.2	109.5	107.1	107.8	108.2	108.2	112.2	113.3	113.4	115.2	111.9	99.2	88.9	78.3
800	106.4	105.4	108.8	108.8	106.4	102.5	106.7	104.3	105.0	105.5	105.3	109.3	110.6	110.7	112.6	109.2	96.8	86.3	75.8
1000	103.4	102.5	105.8	105.9	103.5	99.5	103.8	101.4	102.1	102.5	102.3	106.3	107.8	108.0	109.8	106.5	94.1	83.6	73.1
1250	100.2	99.4	102.7	102.7	100.4	96.4	100.6	98.2	98.9	99.3	99.1	103.1	104.8	105.0	106.7	103.5	91.0	80.5	69.9
1500	96.8	96.0	99.3	99.4	97.0	93.0	97.2	94.8	95.5	95.9	95.5	99.8	101.5	101.8	103.4	100.6	87.9	77.4	66.9
2000	93.1	92.3	95.6	95.7	93.3	89.3	93.5	91.1	91.8	92.2	91.9	96.2	98.1	98.3	99.8	97.5	84.7	74.3	63.6
2500	89.0	88.3	91.6	91.6	89.2	85.2	89.4	87.0	87.7	88.1	88.0	92.3	94.2	94.5	96.0	93.8	80.8	70.3	59.5
3150	84.4	83.8	87.0	87.1	84.7	80.6	84.8	82.4	83.2	83.7	83.7	88.2	89.9	90.7	91.9	89.7	76.4	65.8	54.5
4000	79.3	78.7	81.9	82.0	79.5	75.4	79.6	77.3	78.2	79.1	79.1	83.7	85.1	86.2	87.3	85.2	71.6	60.9	49.2
5000	73.6	73.1	76.1	76.3	73.7	69.7	73.8	71.6	72.5	74.1	74.3	78.8	80.2	81.4	82.5	80.4	66.6	55.6	43.4
6300	67.2	67.8	69.7	69.9	67.2	63.2	67.4	65.2	67.4	68.9	69.2	73.4	75.1	76.4	77.4	75.4	61.5	50.1	36.8
8000	61.8	62.6	63.3	63.6	60.3	57.1	60.9	60.3	62.4	64.1	64.6	68.8	70.8	72.3	73.7	71.7	57.5	45.6	31.2
10000	56.2	56.9	57.8	58.2	53.7	51.8	55.4	54.8	57.5	59.3	59.8	63.8	66.2	68.0	69.7	67.7	53.1	40.6	24.8
12500	50.9	51.2	52.3	52.4	47.8	46.1	49.5	49.2	52.0	53.9	54.5	58.3	61.1	63.2	65.4	63.4	48.3	35.0	16.3
16000	44.4	44.8	45.8	46.1	40.9	39.4	42.5	42.8	45.4	47.9	48.7	52.7	55.5	57.9	60.7	58.5	42.8	28.2	7.8
20000	37.5	37.6	38.5	38.8	33.1	31.3	35.0	34.6	37.8	41.0	41.5	46.4	49.5	52.1	55.5	53.2	36.2	18.5	
25000	28.8	28.2	29.9	30.1	23.6	20.3	25.7	25.7	29.2	32.1	33.0	38.8	42.1	45.4	50.0	47.0	28.4	8.8	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 03
AIRCRAFT CODE 026
OPERATION CODE 01017
PROFILE VERSION A
07 APR 76
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NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. J57-P-59W
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	123.2	121.6	125.8	126.6	124.6	119.7	124.1	120.8	121.2	121.6	121.9	125.9	126.1	125.7	126.6	123.1	111.0	100.9	90.6
250	121.0	119.4	123.6	123.8	122.3	117.5	121.8	118.5	118.9	119.3	119.6	123.6	123.9	123.5	124.5	121.0	108.9	98.7	88.4
315	118.7	117.1	121.3	121.5	120.0	115.2	119.5	116.2	116.6	116.9	117.2	121.2	121.6	121.3	122.4	118.8	106.7	96.5	86.1
400	116.3	114.7	118.9	119.1	117.7	112.8	117.1	113.8	114.2	114.4	114.7	118.7	119.2	118.9	120.1	116.6	104.5	94.3	83.8
500	113.8	112.2	116.4	116.6	115.2	110.3	114.6	111.4	111.7	111.8	112.1	116.1	116.7	116.5	117.7	114.4	102.2	91.9	81.4
630	111.1	109.6	113.8	114.0	112.6	107.7	112.0	108.8	109.1	109.2	109.4	113.3	114.1	113.9	115.2	111.9	99.8	89.4	78.9
800	108.4	106.9	111.1	111.3	109.9	105.0	109.3	105.6	106.4	106.4	106.5	110.5	111.4	111.3	112.6	109.2	97.3	86.9	76.3
1000	105.4	104.0	108.2	108.4	107.0	102.0	106.3	103.1	103.5	103.5	103.5	107.5	108.6	108.5	109.8	106.5	94.7	84.2	73.6
1250	102.3	100.8	105.0	105.2	103.8	98.9	103.2	99.9	100.3	100.3	100.2	104.2	105.6	105.5	106.7	103.5	91.6	81.1	70.5
1500	98.8	97.4	101.6	101.8	100.4	95.5	99.7	96.5	96.9	96.9	96.7	100.9	102.3	102.3	103.4	100.6	88.5	78.0	67.4
2000	92.1	93.8	97.9	98.2	96.8	91.8	96.0	92.8	93.2	93.2	93.0	97.4	98.8	98.8	99.8	97.5	85.3	74.8	64.2
2500	91.0	89.7	93.9	94.1	92.7	87.7	91.9	88.7	89.1	89.1	89.2	93.5	94.9	95.1	96.0	93.8	81.3	70.9	60.0
3150	88.4	87.2	89.3	89.6	88.1	83.1	87.3	84.1	84.6	84.7	84.9	89.4	90.7	91.2	91.9	89.7	77.0	66.4	55.1
4000	80.9	79.9	83.7	84.0	82.3	77.4	81.7	78.7	79.3	79.9	80.0	84.6	85.8	86.7	87.3	85.2	72.1	61.3	49.7
5000	74.8	74.0	77.5	77.8	75.8	71.2	75.4	72.6	73.4	74.7	75.0	79.5	80.7	81.8	82.5	80.4	67.0	55.9	43.7
6300	68.0	68.4	70.7	70.9	68.6	64.2	68.4	65.9	67.9	69.3	69.6	73.9	75.4	76.6	77.4	75.4	61.7	50.3	37.0
8000	62.2	62.9	63.8	64.1	61.0	57.6	61.4	60.6	62.7	64.2	64.8	69.0	71.0	72.4	73.7	71.7	57.6	45.7	31.4
10000	56.2	56.9	57.8	58.2	53.7	51.8	55.4	54.8	57.5	59.3	59.8	63.8	66.2	68.0	69.7	67.7	53.1	40.6	24.8
12500	50.9	51.2	52.3	52.4	47.8	46.1	49.5	49.2	52.0	53.9	54.5	58.3	61.1	63.2	65.4	63.4	48.3	35.0	16.3
16000	44.4	44.8	45.8	46.1	40.9	39.4	42.5	42.8	45.4	47.9	48.7	52.7	55.5	57.9	60.7	58.5	42.8	28.2	7.8
20000	37.5	37.6	38.5	38.8	33.1	31.3	35.0	34.6	37.0	41.0	41.5	46.4	49.5	52.1	55.5	53.2	36.2	18.5	
25000	28.8	28.2	29.9	30.1	23.6	26.3	25.7	25.7	29.2	32.1	33.0	38.8	42.1	45.4	50.0	47.0	28.4	8.8	

> SPL DATA HERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. JT3-P-59W
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 03
AIRCRAFT CODE 026
OPERATION CODE 01017
PROFILE VERSION A
07 APR 76
PAGE F3

DISTANCE	ANGLE (DEGREES)																		
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	106.4	105.9	108.8	108.8	106.2	102.0	106.6	104.1	105.3	106.6	106.2	110.5	111.2	110.9	111.6	109.2	96.5	86.5	76.5
250	104.1	103.7	106.5	106.5	104.0	99.7	104.3	101.8	103.1	104.3	104.0	108.2	109.0	108.8	109.5	107.1	94.4	84.4	74.4
315	101.8	101.4	104.2	104.3	101.7	97.4	102.0	99.5	100.8	102.0	101.7	106.0	106.7	106.6	107.5	105.1	92.3	82.3	72.3
400	99.4	99.1	101.9	101.9	99.3	95.1	99.6	97.2	98.4	99.6	99.4	103.6	104.5	104.4	105.3	102.9	90.2	80.2	70.2
500	97.0	96.7	99.5	99.5	96.9	92.7	97.2	94.7	96.0	97.2	97.0	101.3	102.1	102.2	103.1	100.7	88.0	78.0	68.0
630	94.4	94.2	96.9	97.0	94.4	90.1	94.6	92.2	93.5	94.7	94.5	98.8	99.7	99.8	100.7	98.5	85.7	75.7	65.7
800	91.6	91.6	94.3	94.4	91.8	87.5	92.0	89.6	91.0	92.1	92.0	96.3	97.3	97.4	98.3	96.1	83.4	73.4	63.4
1000	89.8	89.8	91.5	91.6	89.0	84.8	89.2	86.9	88.3	89.5	89.4	93.7	94.7	94.9	95.8	93.7	81.0	71.0	61.0
1250	86.1	86.2	88.6	88.8	86.1	81.9	86.2	84.0	85.5	86.7	86.7	91.0	92.1	92.3	93.1	91.1	78.4	68.4	58.4
1600	83.0	83.3	85.5	85.7	82.9	78.8	83.1	81.0	82.7	83.9	84.0	88.2	89.4	89.5	90.4	88.5	75.7	65.7	55.7
2000	79.8	80.2	82.3	82.5	79.5	75.6	79.8	77.9	79.7	81.0	81.1	85.3	86.5	86.8	87.5	85.7	72.9	62.9	52.9
2500	76.4	76.9	78.7	79.0	75.8	72.1	76.3	74.5	76.5	77.9	78.0	82.2	83.4	83.8	84.4	82.6	69.7	59.7	49.7
3150	72.7	73.4	74.9	75.3	71.8	68.4	72.4	71.0	73.1	74.0	74.7	78.9	80.1	80.5	81.0	79.2	66.2	56.2	46.2
4000	68.7	69.0	70.8	71.3	67.4	64.3	68.3	67.1	69.4	71.0	71.1	75.3	76.4	76.9	77.2	75.4	62.2	52.2	42.2
5000	64.4	65.3	66.3	66.9	62.6	59.9	63.9	62.8	65.3	67.0	67.1	71.2	72.3	72.9	73.0	71.2	57.9	47.9	37.9
6300	59.8	60.8	61.5	62.1	57.5	55.2	59.1	58.3	60.9	62.6	62.7	66.8	67.9	68.5	68.6	66.8	53.5	43.5	33.5
8000	55.2	56.2	56.7	57.5	52.7	50.7	54.5	53.9	56.6	58.3	58.5	62.5	63.7	64.5	64.9	63.1	49.8	39.8	29.8
10000	50.4	51.2	51.7	52.5	47.7	46.0	49.5	49.1	51.8	53.7	53.9	57.8	59.1	60.2	60.9	59.2	46.0	36.0	26.0
12500	45.3	45.9	46.5	47.3	42.5	41.1	44.3	44.0	46.7	48.6	49.0	52.7	54.2	55.5	56.6	54.9	41.8	31.8	21.8
16000	39.7	40.2	40.9	41.6	37.0	35.7	38.6	38.5	41.1	43.1	43.5	47.1	48.9	50.4	52.0	50.3	37.3	27.3	17.3
20000	33.9	34.1	34.9	35.4	31.1	29.9	32.5	32.5	35.0	37.1	37.5	41.1	43.1	44.9	47.2	45.3	32.4	22.4	12.4
25000	27.6	27.6	28.5	28.8	24.8	23.7	26.1	26.2	28.4	30.5	31.0	34.5	36.9	39.2	42.3	40.0	27.3	17.3	7.3

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. J57-P-59W
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 03
AIRCRAFT CODE 026
OPERATION CODE 01017
PROFILE VERSION A
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DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	108.4	107.3	111.1	111.2	109.6	104.5	109.1	105.8	106.7	107.5	107.4	111.6	111.9	111.5	111.6	109.2	97.0	87.0	77.0
250	106.2	105.1	108.9	109.0	107.4	102.2	106.9	103.5	104.4	105.3	105.2	109.4	109.8	109.3	109.5	107.1	95.0	85.0	75.0
315	103.8	102.8	106.5	106.7	105.1	99.9	104.6	101.2	102.2	102.9	102.9	107.1	107.5	107.2	107.5	105.1	92.9	82.9	72.9
400	101.5	100.5	104.2	104.4	102.8	97.6	102.2	98.8	99.8	100.6	100.6	104.8	105.2	105.0	105.3	102.9	90.8	80.8	70.8
500	99.0	98.1	101.8	102.0	100.4	95.1	99.7	96.4	97.4	98.1	98.2	102.4	102.9	102.7	103.1	100.7	88.6	78.6	68.6
630	96.4	95.7	99.3	99.5	97.9	92.6	97.2	93.9	94.9	95.6	95.7	100.0	100.5	100.3	100.7	98.5	86.3	76.3	66.3
800	93.8	93.1	96.6	96.9	95.2	90.0	94.5	91.3	92.3	93.0	93.2	97.5	98.1	97.9	98.3	96.1	84.0	74.0	64.0
1000	91.0	90.5	93.9	94.1	92.5	87.2	91.7	88.6	89.7	90.4	90.6	94.8	95.5	95.5	95.8	93.7	81.6	71.6	61.6
1250	88.1	87.7	90.9	91.2	89.5	84.4	88.8	85.7	86.9	87.7	87.9	92.2	92.9	92.9	93.1	91.1	79.0	69.0	59.0
1600	85.0	84.7	87.9	88.2	86.4	81.3	85.7	82.7	84.1	84.9	85.1	89.4	90.1	90.2	90.4	88.5	76.3	66.3	56.3
2000	81.8	81.7	84.8	85.0	83.0	78.1	82.4	79.6	81.1	82.0	82.2	86.4	87.3	87.3	87.5	85.7	73.5	63.5	53.5
2500	78.4	78.4	81.1	81.5	79.3	74.0	78.8	76.2	77.9	78.9	79.2	83.4	84.2	84.3	84.4	82.6	70.3	60.3	50.3
3150	74.7	74.9	77.3	77.8	75.3	70.9	75.0	72.6	74.5	75.0	75.9	80.0	80.9	81.1	81.0	79.2	66.7	56.7	46.7
4000	70.4	70.7	72.7	73.2	70.2	66.3	70.4	68.4	70.5	71.8	72.1	76.2	77.1	77.4	77.2	75.4	62.7	52.7	42.7
5000	65.6	66.2	67.7	68.3	64.7	61.4	65.4	63.9	66.2	67.6	67.8	71.9	72.8	73.2	73.0	71.2	58.3	48.3	38.3
6300	60.6	61.4	62.4	63.1	58.9	56.2	60.1	59.0	61.5	63.0	63.2	67.3	68.2	68.7	68.6	66.8	53.7	43.7	33.7
8000	55.6	56.5	57.2	58.0	53.3	51.2	55.0	54.2	56.8	58.5	58.8	62.7	63.8	64.6	64.9	63.1	50.0	40.0	30.0
10000	50.4	51.2	51.7	52.5	47.7	46.0	49.5	49.1	51.8	53.7	53.9	57.8	59.1	60.2	60.9	59.2	46.0	36.0	26.0
12500	45.3	45.9	46.5	47.3	42.5	41.1	44.3	44.0	46.7	48.6	49.0	52.7	54.2	55.5	56.6	54.9	41.8	31.8	21.8
16000	39.7	40.2	40.9	41.6	37.0	35.7	38.6	38.5	41.1	43.1	43.5	47.1	48.9	50.4	52.0	50.3	37.3	27.3	17.3
20000	33.9	34.1	34.9	35.4	31.1	29.9	32.5	32.5	35.0	37.1	37.5	41.1	43.1	44.9	47.2	45.3	32.4	22.4	12.4
25000	27.6	27.6	28.5	28.8	24.8	23.7	26.1	26.2	28.4	30.5	31.0	34.5	36.9	39.2	42.3	40.0	27.3	17.3	7.3

> SPL DATA HERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

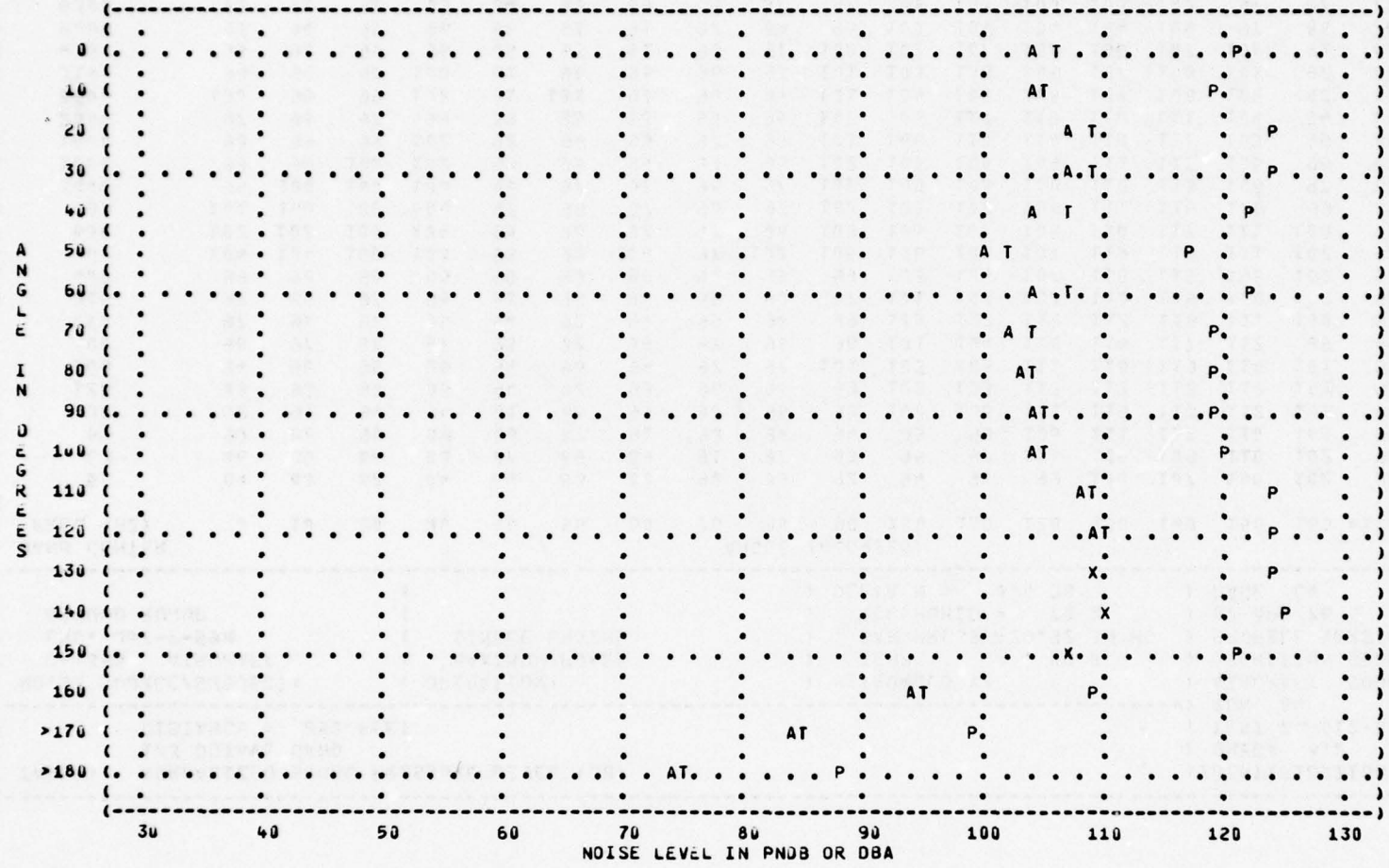
NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. J57-P-59W
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 90% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 03
AIRCRAFT CODE 026
OPERATION CODE 01017
PROFILE VERSION A
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PAGE J3

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 04
AIRCRAFT CODE 026
OPERATION CODE 01031
PROFILE VERSION A
07 APR 76
PAGE C4

NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. J57-P-59W
GROUND RUNUP

OPERATION:
MAXIMUM POWER
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	84	83	82	84	84	83	88	90	89	92	94	94	99	103	107	108	102	92	82
63	86	85	86	88	87	85	89	91	91	93	95	97	104	109	109	110	102	92	82
80	90	88	90	89	88	87	91	93	94	94	96	99	106	111	112	110	101	91	81
100	92	91	94	94	91	88	95	97	95	98	100	103	111	115	117	112	102	92	82
125	93	93	93	95	94	92	95	96	98	99	102	103	112	117	118	112	101	91	81
160	94	96	96	96	94	93	94	97	97	101	103	106	111	118	119	114	101	91	81
200	98	97	98	97	93	92	96	97	95	98	101	104	110	114	117	112	99	89	79
250	97	95	97	95	94	92	94	95	94	99	100	102	110	113	116	111	100	90	80
315	95	95	97	96	93	93	94	95	93	97	101	103	107	113	115	109	102	92	82
400	99	98	98	98	95	93	95	94	95	99	103	104	107	110	115	108	102	92	82
500	104	104	105	103	98	98	100	97	102	105	106	106	107	110	119	111	102	92	82
630	102	102	103	104	98	98	97	97	98	103	105	107	109	110	117	111	100	90	80
800	101	100	102	104	97	99	97	98	97	102	105	107	108	111	115	110	99	89	79
1000	99	100	100	103	95	97	97	96	97	102	105	108	108	110	113	108	97	87	77
1250	99	99	100	102	93	95	95	97	95	102	105	108	109	111	112	105	95	85	75
1600	98	99	99	102	92	94	95	97	95	103	106	110	110	110	111	105	95	85	75
2000	97	98	97	99	89	95	93	95	95	102	105	110	110	110	111	104	94	84	74
2500	100	99	99	102	91	101	95	96	94	101	104	108	108	108	108	102	92	82	72
3150	98	99	98	100	91	98	96	96	93	101	103	108	108	107	108	101	92	82	72
4000	95	95	95	96	86	93	91	93	91	100	102	107	108	106	107	100	91	81	71
5000	95	94	93	96	86	91	91	92	89	98	100	104	104	104	104	97	88	78	68
6300	92	91	92	93	84	89	89	89	87	97	99	103	103	103	103	97	87	77	67
8000	89	89	90	91	82	87	87	87	86	95	96	100	101	100	101	94	84	74	64
10000	84	84	85	86	77	84	83	83	82	92	92	97	98	97	97	90	80	70	60
OVERALL	111	111	112	113	107	108	108	109	109	114	116	120	122	125	128	122	113	103	93

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 04
AIRCRAFT CODE 026
OPERATION CODE 01031
PROFILE VERSION A
07 APR 76
PAGE D4

NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. J57-P-59W
GROUND RUNUP

OPERATION:
MAXIMUM POWER
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	125.4	125.2	125.5	127.2	118.9	124.1	122.5	123.2	121.6	128.3	130.5	134.6	135.8	136.5	138.3	132.3	122.6	112.6	102.5
250	123.2	122.9	123.2	124.9	116.7	121.8	120.3	120.9	119.4	126.1	128.3	132.4	133.5	134.3	136.2	130.1	120.4	110.4	100.3
315	120.9	120.6	120.9	122.7	114.4	119.5	118.0	118.6	117.1	123.7	126.0	130.1	131.2	132.0	134.0	127.8	118.1	108.1	98.0
400	118.5	118.2	118.6	120.3	112.0	117.2	115.6	116.3	114.7	121.3	123.6	127.7	128.8	129.7	131.7	125.5	115.9	105.8	95.6
500	116.1	115.8	116.1	117.9	109.5	114.7	113.1	113.8	112.3	118.8	121.1	125.1	126.4	127.3	129.4	123.2	113.6	103.5	93.2
630	113.5	113.1	113.6	115.3	107.0	112.2	110.5	111.1	109.7	116.2	118.6	122.5	123.7	124.8	127.1	120.8	111.2	101.1	90.8
800	110.8	110.4	110.9	112.6	104.3	109.5	107.7	108.4	107.0	113.4	115.9	119.7	121.1	122.2	124.6	118.3	108.8	98.6	88.3
1000	108.0	107.6	108.1	109.8	101.4	106.6	104.8	105.4	104.3	110.6	113.2	116.9	118.3	119.4	122.0	115.8	106.2	96.0	85.6
1250	105.0	104.5	105.0	106.8	98.6	103.5	101.6	102.3	101.0	107.5	110.2	113.9	115.3	116.5	119.3	113.0	103.5	93.2	82.8
1500	101.7	101.2	101.8	103.5	95.7	100.2	98.1	98.9	98.6	104.3	107.0	110.7	112.1	113.3	116.4	110.1	100.6	90.2	79.9
2000	98.2	98.2	98.7	100.0	92.6	96.6	94.9	95.3	95.5	100.9	103.5	107.2	108.6	109.9	113.4	107.0	97.4	87.1	76.7
2500	94.8	94.8	95.4	96.1	89.2	92.7	91.4	91.6	92.1	97.1	99.7	103.4	104.8	106.1	110.0	103.6	93.9	83.6	73.2
3150	90.9	90.9	91.5	92.3	85.4	88.3	87.5	87.5	88.1	93.1	95.6	99.2	100.6	101.8	106.1	99.9	89.9	79.6	69.1
4000	86.6	86.6	87.2	88.1	81.2	83.3	83.1	83.0	83.8	88.7	91.2	94.6	95.8	97.2	101.7	95.6	85.4	75.1	64.6
5000	81.8	81.9	82.5	83.6	76.5	78.2	78.3	78.2	79.1	83.9	86.3	89.7	90.9	92.5	97.1	90.9	80.7	70.3	59.6
6300	76.9	76.9	77.6	78.7	71.5	73.2	73.3	73.2	74.1	78.9	81.0	84.4	85.5	87.5	92.2	86.0	75.7	65.2	54.4
8000	72.7	72.8	73.5	74.2	67.4	68.0	69.1	68.7	70.1	74.7	76.6	79.1	80.9	83.2	88.3	82.0	71.8	61.2	49.9
10000	68.4	68.4	69.2	69.5	62.9	63.7	64.8	63.8	65.7	70.3	71.9	74.2	76.3	78.5	84.2	77.8	67.6	56.8	44.8
12500	63.6	63.7	64.4	64.4	58.2	58.0	59.9	58.6	61.0	65.5	67.1	69.1	71.4	74.1	79.9	73.2	63.1	51.9	39.2
16000	58.4	58.4	59.2	58.8	52.9	53.1	54.7	53.1	55.8	60.2	61.8	63.5	66.0	69.2	75.1	68.4	58.1	46.4	33.0
20000	52.6	52.6	53.4	52.8	47.0	46.9	48.8	47.0	49.9	54.4	55.9	57.4	60.3	63.8	69.8	63.1	52.5	39.7	25.3
25000	49.8	49.8	48.6	48.0	39.6	39.1	41.7	39.5	42.9	47.8	49.3	50.7	54.0	57.9	64.0	57.1	45.9	31.8	13.4

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 04
AIRCRAFT CODE 026
OPERATION CODE 01031
PROFILE VERSION A
07 APR 76
PAGE E4

NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. J57-P-59W
GROUND RUNUP

OPERATION:
MAXIMUM POWER
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	126.6	126.7	126.8	127.2	118.9	125.3	124.0	123.2	123.9	129.0	130.5	134.6	135.8	136.5	138.3	132.3	122.6	112.6	102.5
250	124.3	124.4	124.6	124.9	116.7	123.1	121.8	120.9	121.2	127.4	128.3	132.4	133.5	134.3	136.2	130.1	120.4	110.4	100.3
315	122.1	122.1	122.3	122.7	114.4	120.8	119.5	118.6	118.9	125.1	126.0	130.1	131.2	132.0	134.0	127.8	118.1	108.1	98.0
400	119.7	119.7	119.9	120.3	112.0	118.4	117.1	116.3	116.6	122.7	123.6	127.7	128.8	129.7	131.7	125.5	115.9	105.8	95.6
500	117.3	117.2	117.5	117.9	109.5	116.0	114.6	113.8	114.1	120.2	121.1	125.1	126.4	127.3	129.4	123.2	113.6	103.5	93.2
630	114.7	114.6	114.9	115.3	107.0	113.4	112.0	111.1	111.5	117.5	118.6	122.5	123.7	124.8	127.1	120.8	111.2	101.1	90.8
800	112.6	111.9	112.3	112.6	104.3	110.7	109.2	108.4	108.8	114.8	115.9	119.7	121.1	122.2	124.6	118.3	108.8	98.6	88.3
1000	109.2	109.0	109.4	109.8	101.4	107.8	106.3	105.4	106.1	111.9	113.2	116.9	118.3	119.4	122.0	115.8	106.2	96.0	85.5
1250	106.1	106.0	106.4	106.8	98.6	104.8	103.1	102.3	103.4	108.9	110.2	113.9	115.3	116.5	119.3	113.0	103.5	93.2	82.8
1600	102.9	102.7	103.2	103.5	95.7	101.5	99.6	98.9	100.4	105.7	107.0	110.7	112.1	113.3	116.4	110.1	100.6	90.2	79.9
2000	99.4	99.6	100.1	100.0	92.6	97.9	96.3	95.3	97.3	102.2	103.5	107.2	108.6	109.9	113.4	107.0	97.4	87.1	76.7
2500	96.0	96.3	96.8	96.1	89.2	93.9	92.9	91.6	93.9	98.4	99.7	103.4	104.8	106.1	110.0	103.6	93.9	83.6	73.2
3150	92.1	92.4	92.9	92.3	85.4	89.2	88.9	87.5	90.0	94.4	95.6	99.2	100.6	101.8	106.1	99.9	89.9	79.6	69.1
4000	87.5	87.8	88.3	88.1	81.2	84.3	84.3	83.0	85.3	89.8	91.2	94.6	95.8	97.2	101.7	95.6	85.4	75.1	64.6
5000	82.5	82.8	83.3	83.6	76.5	79.0	79.2	78.2	80.2	84.7	86.3	89.7	90.9	92.5	97.1	90.9	80.7	70.3	59.6
6300	77.3	77.5	78.1	78.7	71.5	73.7	73.9	73.2	74.9	79.5	81.0	84.4	85.5	87.2	92.2	86.0	75.7	65.2	54.4
8000	73.6	73.1	73.8	74.2	67.4	68.8	69.4	68.7	70.4	75.0	76.6	79.1	80.9	83.2	88.3	82.0	71.8	61.2	49.9
10000	68.4	68.4	69.2	69.5	62.9	63.7	64.8	63.8	65.7	70.3	71.9	74.2	76.3	78.5	84.2	77.8	67.6	56.8	44.8
12500	63.6	63.7	64.4	64.4	58.2	58.6	59.9	58.6	61.0	65.5	67.1	69.1	71.4	74.1	79.9	73.2	63.1	51.9	39.2
16000	58.4	58.4	59.2	58.8	52.9	53.1	54.7	53.1	55.8	60.2	61.8	63.5	66.0	69.2	75.1	68.4	58.1	46.4	33.0
20000	52.6	52.6	53.4	52.8	47.0	46.9	48.8	47.0	49.9	54.4	55.9	57.4	60.3	63.8	69.8	63.1	52.5	39.7	25.3
25000	45.8	45.8	46.6	46.0	39.6	39.1	41.7	39.5	42.9	47.8	49.3	50.7	54.0	57.9	64.0	57.1	45.9	31.8	13.4

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 04
AIRCRAFT CODE 026
OPERATION CODE 01031
PROFILE VERSION A
07 APR 76
PAGE F4

NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. J57-P-59W
GROUND RUNUP

OPERATION:
MAXIMUM POWER
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	112.2	112.2	112.7	114.2	100.3	110.0	108.2	109.3	108.6	115.0	117.4	121.3	121.8	122.5	125.7	119.5	109.5	99.5	89.5
250	110.8	110.8	110.8	112.4	104.2	107.8	106.4	107.1	106.4	112.8	115.3	119.1	119.6	120.5	123.6	117.4	107.4	97.4	87.4
315	107.8	107.8	108.4	110.2	102.0	105.0	104.2	104.9	104.3	110.0	113.1	116.8	117.4	118.3	121.5	115.3	105.3	95.3	85.3
400	105.6	105.0	106.2	108.0	99.9	103.3	101.9	102.7	102.1	108.3	110.8	114.5	115.1	116.1	119.3	113.1	103.2	93.2	83.2
500	103.3	103.3	103.9	105.7	97.0	101.0	99.7	100.4	99.8	106.0	108.5	112.2	112.7	113.8	117.1	110.9	101.0	91.0	81.0
630	101.0	101.0	101.0	103.4	95.4	98.0	97.3	98.0	97.5	103.6	106.1	109.7	110.3	111.4	114.9	108.7	98.7	88.7	78.7
800	98.6	98.6	99.3	101.0	93.1	96.1	94.9	95.6	95.2	101.1	103.7	107.2	107.8	109.0	112.0	106.4	96.4	86.4	76.4
1000	96.2	96.2	96.8	98.5	90.7	93.5	92.4	93.1	92.6	98.6	101.2	104.6	105.3	106.5	110.2	104.0	94.1	84.1	74.1
1250	93.6	93.7	94.3	96.0	88.3	90.9	89.9	90.4	90.3	96.0	98.6	101.9	102.6	103.9	107.7	101.5	91.6	81.6	71.6
1500	91.0	91.1	91.8	93.4	85.8	88.1	87.3	87.7	87.7	93.3	95.9	99.1	99.8	101.2	105.2	99.0	89.1	79.1	69.1
2000	86.3	86.4	89.1	90.6	83.2	85.2	84.5	84.9	85.0	90.5	93.0	96.1	96.8	98.3	102.6	96.4	86.5	76.5	66.5
2500	85.4	85.5	86.3	87.7	80.3	82.1	81.6	81.9	82.2	87.5	90.0	93.0	93.7	95.3	99.7	93.5	83.5	73.5	63.5
3150	82.2	82.3	83.1	84.6	77.2	78.8	78.3	78.7	79.0	84.2	86.7	89.6	90.3	92.0	96.6	90.4	80.3	70.3	60.3
4000	78.6	78.7	79.0	81.1	73.7	75.2	74.8	75.1	75.4	80.6	83.1	85.9	86.7	88.3	93.0	86.9	76.6	66.6	56.6
5000	74.6	74.6	75.6	77.2	69.8	71.1	70.8	71.2	71.4	76.5	79.1	81.8	82.5	84.3	89.0	82.9	72.5	62.5	52.5
6300	70.3	70.3	71.2	72.8	65.5	66.7	66.4	66.8	67.0	72.1	74.7	77.4	78.1	79.9	84.6	78.6	68.2	58.2	48.2
8000	66.3	66.3	67.3	68.7	61.6	62.7	62.4	62.6	63.1	68.0	70.4	72.9	73.7	75.7	80.8	74.8	64.4	54.4	44.4
10000	62.1	62.1	63.0	64.2	57.3	58.2	58.1	58.0	58.8	63.6	65.9	68.1	69.1	71.2	76.7	70.6	60.2	50.2	40.2
12500	57.4	57.4	58.3	59.3	52.7	53.4	53.4	53.0	54.1	58.8	60.9	62.9	64.0	66.2	72.1	65.9	55.7	45.7	35.7
16000	52.3	52.3	53.2	53.9	47.5	48.1	48.2	47.5	49.1	53.6	55.5	57.3	58.6	61.0	67.1	60.8	50.8	40.8	30.8
20000	46.6	46.6	47.5	47.8	41.8	42.2	42.6	41.4	43.5	47.9	49.6	51.1	52.8	55.3	61.6	55.2	45.4	35.4	25.4
25000	40.3	40.3	41.1	41.1	35.4	35.0	36.3	34.9	37.3	41.5	43.1	44.4	46.5	49.4	55.6	49.0	39.5	29.5	19.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (OBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 04
AIRCRAFT CODE 026
OPERATION CODE 01031
PROFILE VERSION A
07 APR 76
PAGE G4

NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. J57-P-59W
GROUND RUNUP

OPERATION:
MAXIMUM POWER
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	113.4	113.6	114.1	114.5	100.3	111.2	110.0	109.3	110.4	116.3	117.4	121.3	121.8	122.6	125.7	119.5	109.5	99.5	89.5
250	111.2	111.5	111.9	112.4	104.2	109.1	107.8	107.1	108.3	114.1	115.3	119.1	119.6	120.5	123.6	117.4	107.4	97.4	87.4
315	109.0	109.3	109.8	110.2	102.0	106.8	105.7	104.9	106.1	111.9	113.1	116.8	117.4	118.3	121.5	115.3	105.3	95.3	85.3
400	106.8	107.1	107.5	108.0	99.9	104.6	103.4	102.7	103.9	109.6	110.8	114.5	115.1	116.1	119.3	113.1	103.2	93.2	83.2
500	104.5	104.8	105.3	105.7	97.6	102.2	101.1	100.4	101.7	107.3	108.5	112.2	112.7	113.8	117.1	110.9	101.0	91.0	81.0
630	102.2	102.5	103.0	103.4	95.4	99.8	98.8	98.0	99.4	104.9	106.1	109.7	110.3	111.4	114.9	108.7	98.7	88.7	78.7
800	99.8	100.1	100.6	101.0	93.1	97.3	96.4	95.6	97.0	102.5	103.7	107.2	107.8	109.0	112.6	106.4	96.4	86.4	76.4
1000	97.3	97.7	98.2	98.5	90.7	94.8	93.9	93.1	94.6	99.9	101.2	104.6	105.3	106.5	110.2	104.0	94.1	84.1	74.1
1250	94.8	95.1	95.7	96.0	88.3	92.1	91.4	90.4	92.1	97.3	98.6	101.9	102.6	103.9	107.7	101.5	91.6	81.6	71.6
1500	92.2	92.5	93.1	93.4	85.8	89.3	88.7	87.7	89.5	94.6	95.9	99.1	99.8	101.2	105.2	99.0	89.1	79.1	69.1
2000	89.5	89.8	90.5	90.6	83.2	86.4	86.0	84.9	86.9	91.8	93.0	96.1	96.8	98.3	102.6	96.4	86.5	76.5	66.5
2500	86.6	87.0	87.6	87.7	80.3	83.3	83.1	81.9	84.0	88.9	90.0	93.0	93.7	95.3	99.7	93.5	83.5	73.5	63.5
3150	83.4	83.7	84.5	84.6	77.2	80.0	79.8	78.7	80.8	85.6	86.7	89.6	90.3	92.0	96.6	90.4	80.3	70.3	60.3
4000	79.6	79.9	80.7	81.1	73.7	75.2	76.0	75.1	76.9	81.7	83.1	85.9	86.7	88.3	93.0	86.9	76.6	66.6	56.6
5000	75.3	75.5	76.4	77.2	69.8	71.8	71.6	71.2	72.5	77.3	79.1	81.8	82.5	84.3	89.0	82.9	72.5	62.5	52.5
6300	70.7	70.9	71.8	72.8	65.5	67.2	67.0	66.8	67.8	72.7	74.7	77.4	78.1	79.9	84.6	78.6	68.2	58.2	48.2
8000	66.6	66.6	67.6	68.7	61.6	62.9	62.7	62.6	63.4	68.3	70.4	72.9	73.7	75.7	80.8	74.8	64.4	54.4	44.4
10000	62.1	62.1	63.0	64.2	57.3	58.2	58.1	58.0	58.8	63.6	65.9	68.1	69.1	71.2	76.7	70.6	60.2	50.2	40.2
12500	57.4	57.4	58.3	59.3	52.7	53.4	53.4	53.0	54.1	58.8	60.9	62.9	64.0	66.2	72.1	65.9	55.7	45.7	35.7
16000	52.3	52.3	53.2	53.9	47.5	48.1	48.2	47.5	49.1	53.6	55.5	57.3	58.6	61.0	67.1	60.8	50.8	40.8	30.8
20000	46.6	46.6	47.5	47.8	41.8	42.2	42.5	41.4	43.5	47.9	49.6	51.1	52.8	55.3	61.6	55.2	45.4	35.4	25.4
25000	40.3	40.3	41.1	41.1	35.4	35.6	36.3	34.9	37.3	41.5	43.1	44.4	46.5	49.4	55.6	49.0	39.5	29.5	19.5

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

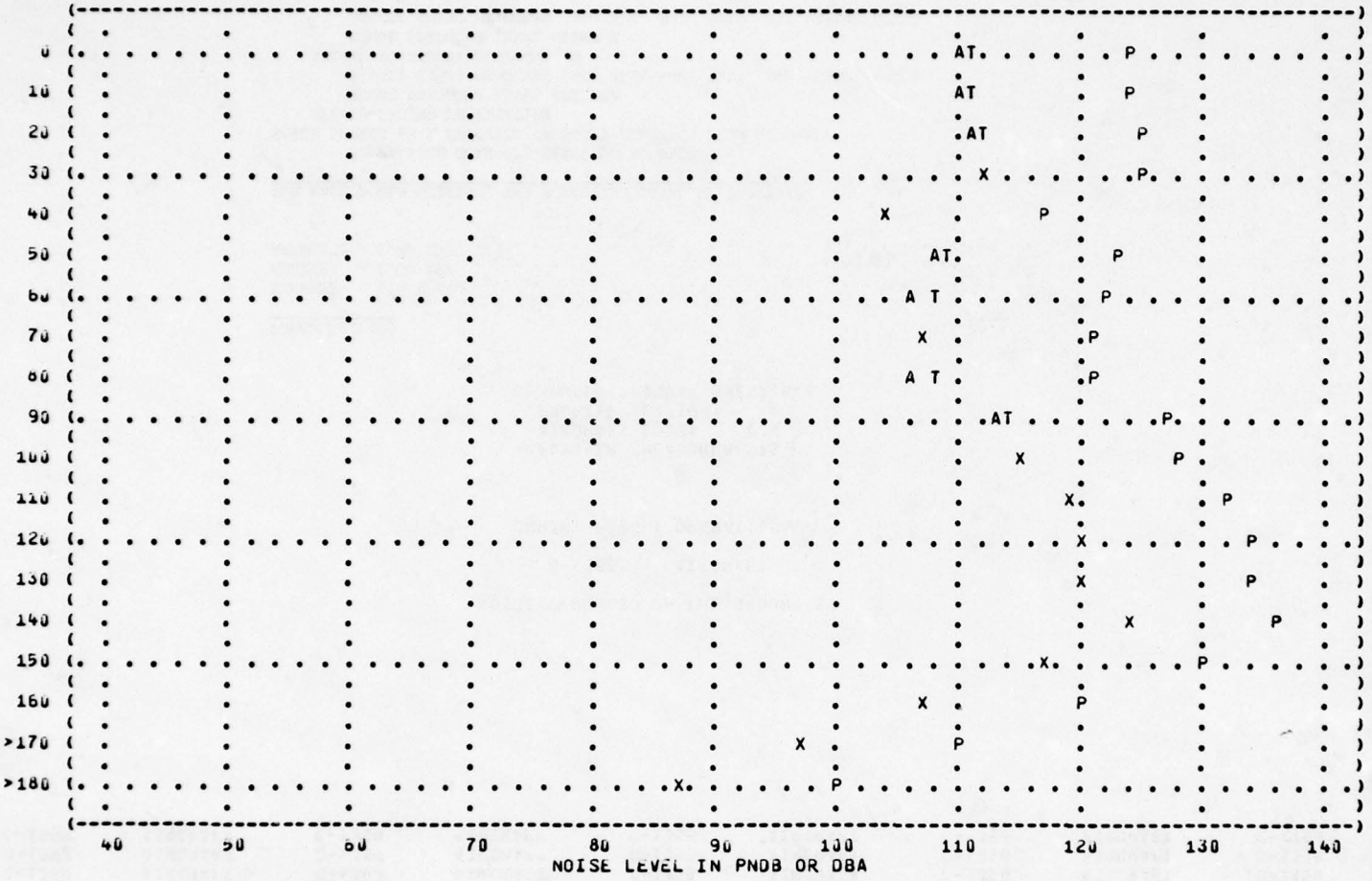
NOISE SOURCE/SUBJECT:
C-135A AIRCRAFT
ENG. J57-P-59W
GROUND RUNUP

OPERATION:
MAXIMUM POWER
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-012-001
RUN 04
AIRCRAFT CODE 026
OPERATION CODE 01031
PROFILE VERSION A
07 APR 76
PAGE J4

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAF C-135B AIRCRAFT C-135B AIRCRAFT C-135B AIRCRAFT C-135B AIRCRAFT C-135B AIRCRAFT C-135B USAF

NOISE PRODUCED ON THE GROUND BY

C-135B AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 025
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

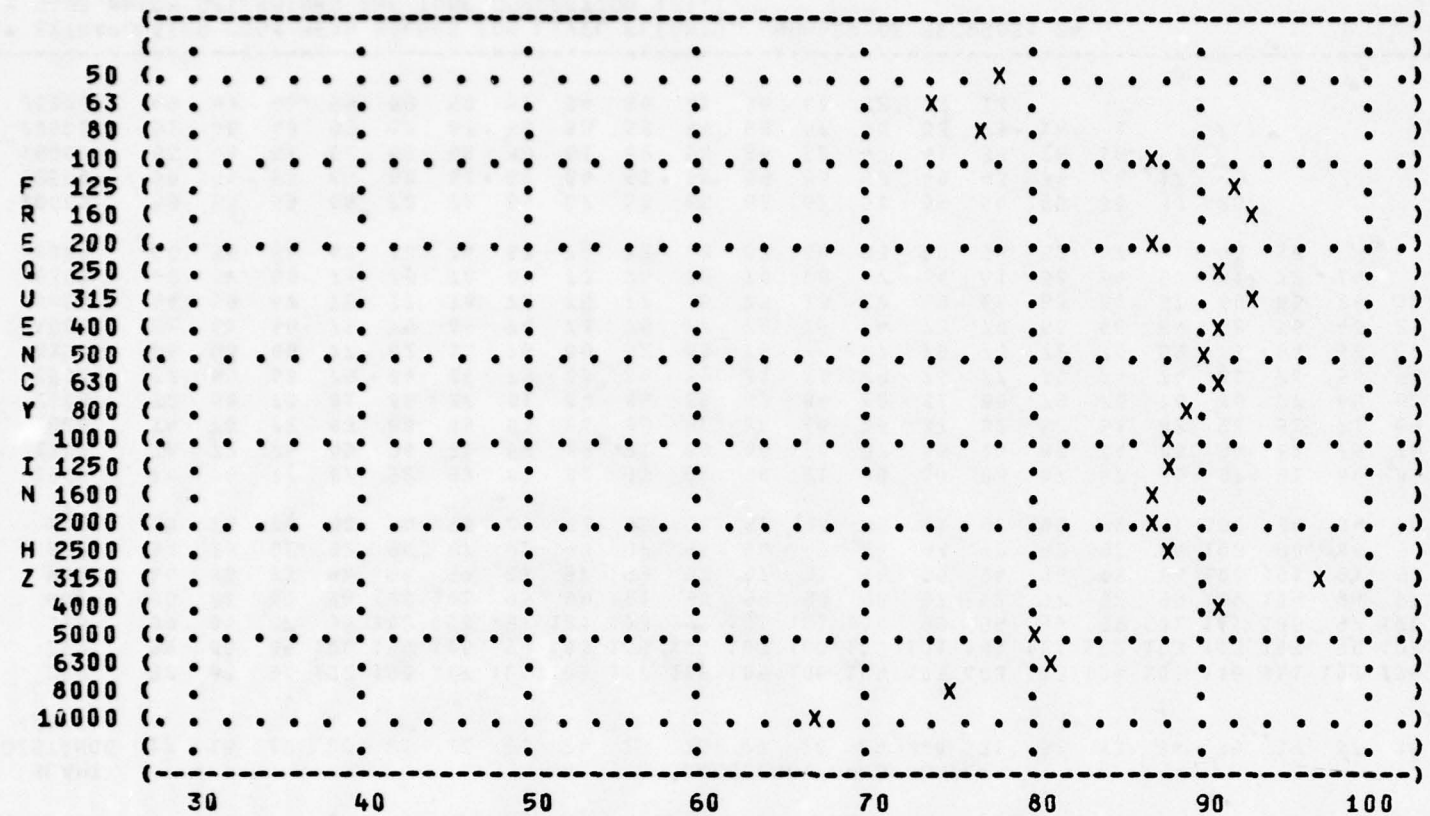
POWER SETTING	PAGE
TAKEOFF - 1.8 EPR	533 - 541
CRUISE - 1.09 EPR	542 - 550
APPRCACH - 1.29 EPR	551 - 559

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
AIR-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF C-135B AIRCRAFT C-135B AIRCRAFT C-135B AIRCRAFT C-135B AIRCRAFT C-135B AIRCRAFT C-135B USAF



C-135B TAKEOFF POWER 1.8 EPR

AIRSPEED = 250 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 24

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-025-103-190975

PNLT = 119.8 PNDB
PNL = 117.3 PNDB
ALT = 104.4 DBA
AL = 101.9 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-1358

OPERATION:
TAKEOFF POWER
1.8 EPR
AIRSPEED = 250 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 025
OPS CODE: 103
PROFILE VER: A
19 SEP 75
PAGE H1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																								
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	92	88	91	102	106	107	101	105	107	106	105	106	104	103	103	103	104	106	116	111	102	106	104	104
250	90	86	89	100	104	105	99	103	105	104	103	103	102	101	101	101	102	103	113	109	99	103	101	100
315	88	84	87	98	102	103	97	101	103	102	101	101	100	99	99	99	99	101	111	106	97	100	98	96
400	86	82	85	96	100	101	95	99	101	99	99	99	98	97	97	97	97	99	109	104	94	97	94	92
500	84	80	83	94	98	99	93	97	99	97	97	97	96	95	94	94	95	96	106	101	91	94	90	87
630	82	78	81	92	96	97	91	95	97	95	94	95	94	93	92	92	92	94	103	98	88	90	86	81
800	80	76	79	90	94	95	89	93	95	93	92	93	91	91	90	90	90	91	100	94	84	86	81	75
1000	78	74	77	87	92	93	87	91	93	91	90	91	89	88	88	87	87	88	97<	91	80	81	75	67
1250	76	72	74	85	90	91	85	89	91	89	88	88	87	86	85	85	84	85	94	87	76	76	68	58
1600	74	70	72	83	88	89	83	86	89	87	86	86	85	83	82	82	81	82	90	82	71	69	59	46
2000	72	68	70	81	86	87	81	84	86	85	83	84	82	81	80	79	78	78	86	77	65	62	49	33
2500	70	65	68	79	84	85	79	82	84	82	81	81	79	78	77	75	74	74	81	71	58	53	37	16
3150	68	63	66	77	82	83	76	80	82	80	79	79	77	75	73	72	70	69	75	64	50	42	23	
4000	66	61	64	75	79	81	74	78	79	77	76	76	74	72	70	68	66	64	68	55	40	29	5	
5000	64	59	62	73	77	78	72	75	77	75	73	73	70	68	66	63	60	57	60	45	28	14		
6300	62	57	60	71	75	76	69	73	74	72	70	70	67	64	61	58	54	50	51	32	14			
8000	60	55	58	68	73	74	67	70	72	69	67	66	63	60	56	52	47	41	40	17				
10000	58	53	55	66	70	71	64	67	69	66	63	62	58	54	50	45	38	30	26					
12500	55	51	53	64	68	68	62	64	65	62	59	58	53	48	43	36	28	17	9					
16000	53	48	51	61	65	66	59	61	62	58	55	52	47	41	35	26	16	2						
20000	51	46	48	59	62	63	55	58	58	54	50	47	40	33	25	14	1							
25000	49	43	46	56	59	59	52	54	54	48	44	40	32	23	13									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 24
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-135B

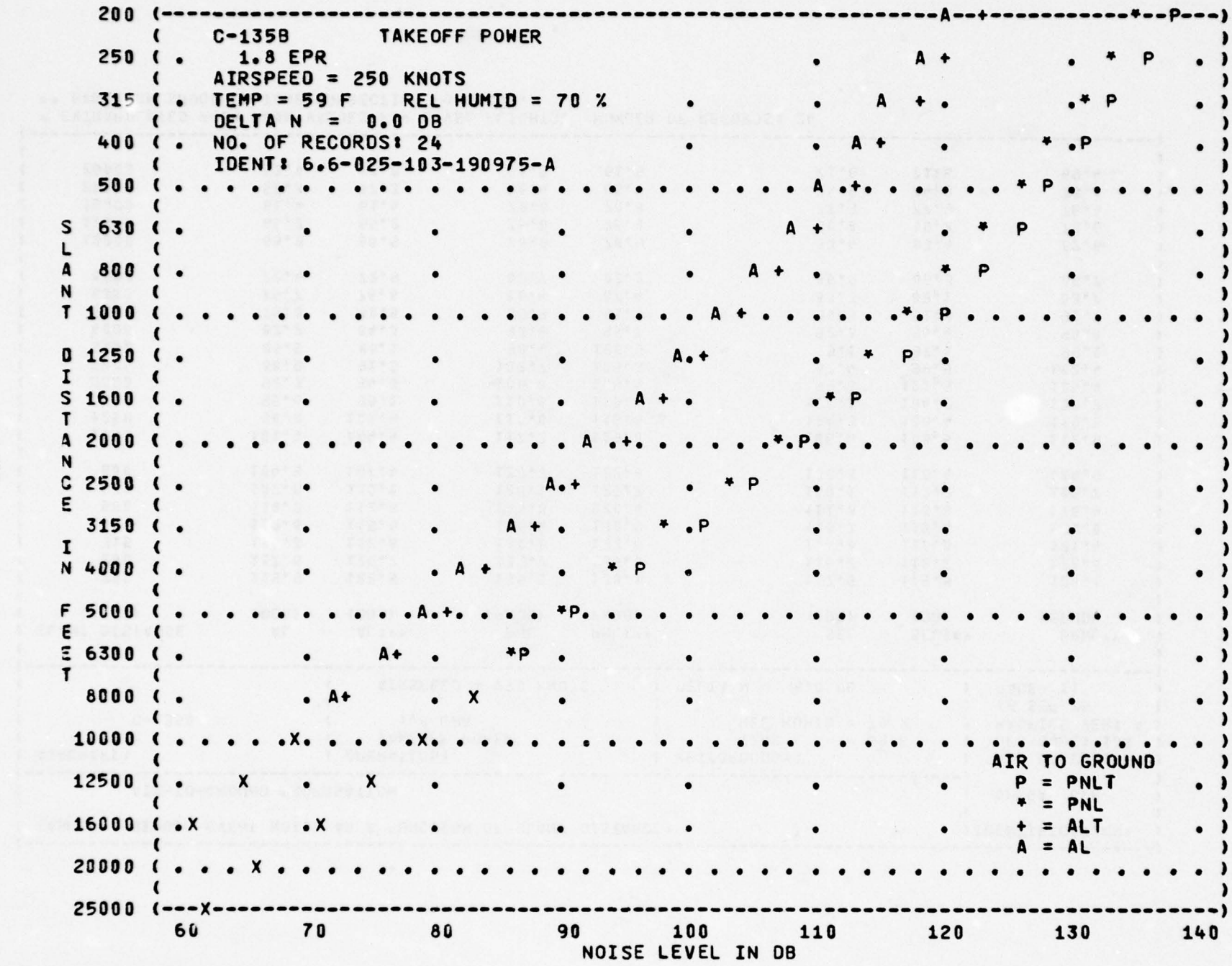
OPERATION:
TAKEOFF POWER
1.8 EPR
AIRSPEED = 250 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 025
OPS CODE: 103
PROFILE VER: A
19 SEP 75
PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	119.9	122.5	135.5	138.1	117.5	119.5	124.1
250	117.6	120.2	133.2	135.8	116.2	118.2	122.8
315	115.3	117.8	130.8	133.4	114.8	116.8	121.4
400	112.8	115.4	128.4	130.9	113.3	115.4	120.0
500	110.2	112.8	125.8	128.4	111.8	113.8	118.4
630	107.6	110.1	123.1	125.7	110.1	112.2	116.7
800	104.8	107.4	120.3	122.8	108.3	110.4	114.9
1000	101.9	104.4	117.3	119.8	106.4	108.5	112.9
1250	98.8	101.4	114.0	116.6	104.3	106.4	110.6
1600	95.6	98.1	110.6	113.1	102.1	104.2	108.2
2000	92.3	94.8	106.8	109.4	99.8	101.9	105.4
2500	88.9	91.5	102.7	105.3	97.4	99.5	102.4
3150	85.5	88.1	98.4	100.9	95.1	97.1	99.0
4000	82.2	84.3	93.6	95.7	92.8	94.4	94.8
5000	79.0	80.5	89.9	91.4	90.5	91.8	91.7
6300	75.7	76.8	86.4	87.4	88.3	89.1	88.7
8000	72.4	72.9	82.7	83.2	85.9	86.3	85.7
10000	68.9	68.9	78.9	78.9	83.4	83.4	82.5
12500	65.2	65.2	75.0	75.0	80.8	80.8	79.6
16000	61.4	61.4	70.8	70.8	77.9	77.9	76.4
20000	57.3	57.3	66.4	66.4	74.9	74.9	73.0
25000	53.0	53.0	61.9	61.9	71.6	71.6	69.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 24
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-135B TAKEOFF POWER
1.8 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 24
IDENT: 6.6-025-103-190975-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

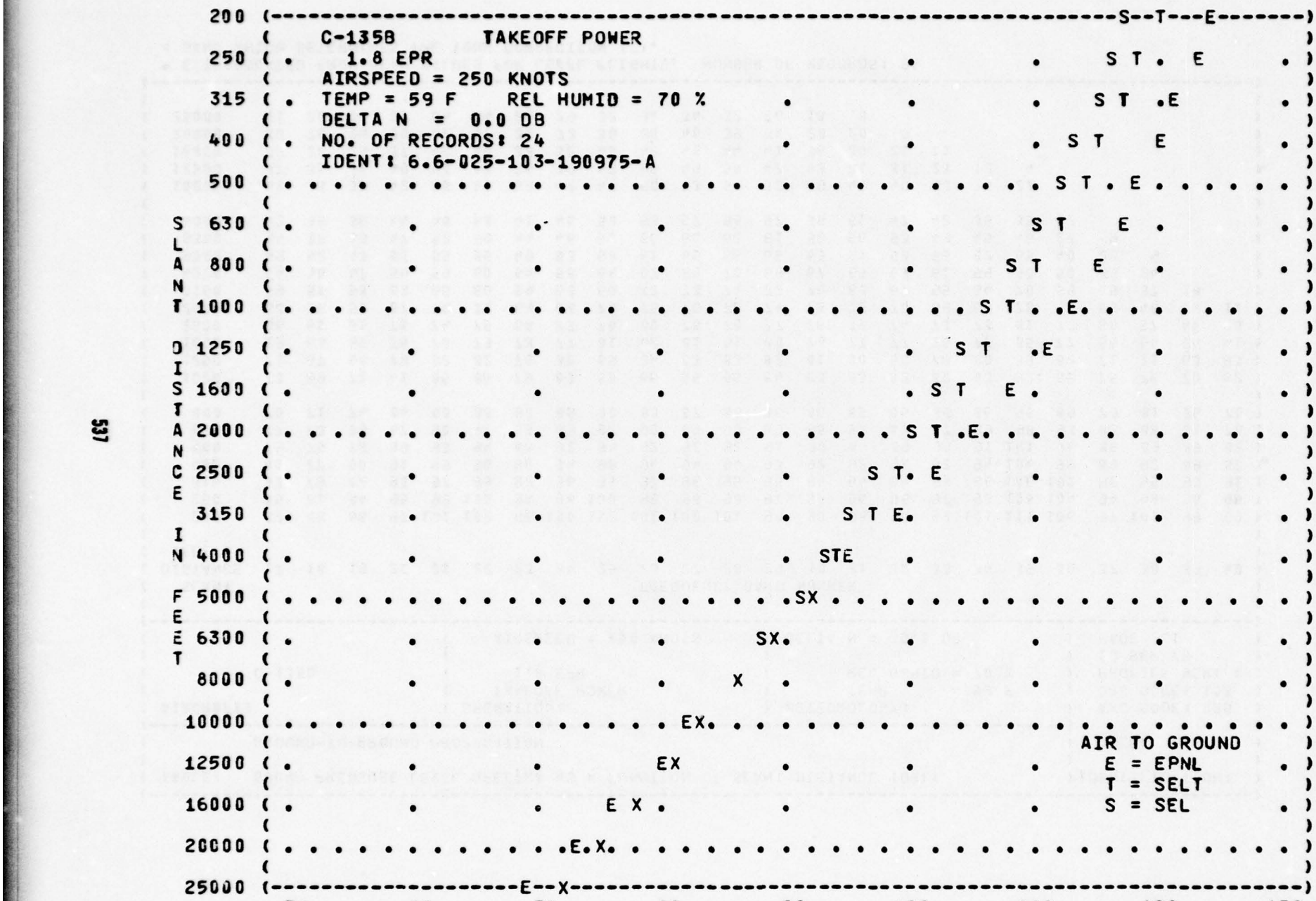

C-1358 TAKEOFF POWER
1.8 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 24
IDENT: 6.6-025-103-190975-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

AIRCRAFT: C-135B

OPERATION: TAKEOFF POWER, 1.8 EPR, AIRSPEED = 250 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

IDENTIFICATION: OMEGA 6.6, A/C CODE: 025, OPS CODE: 103, PROFILE VER: A, 19 SEP 75, PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	87	83	86	97	101	102	96	100	102	101	100	101	99	98	98	98	99	101	111	106	97	101	99	99
250	85	81	84	95	99	100	94	98	100	99	98	98	97	96	96	96	97	98	108	104	94	98	96	95
315	83	79	82	93	97	98	92	96	98	97	96	96	95	94	94	94	94	96	106	101	92	95	93	91
400	81	77	80	91	95	96	90	94	96	94	94	94	93	92	92	92	92	94	104	99	89	92	89	87
500	79	75	78	89	93	94	88	92	94	92	92	92	91	90	89	89	90	91	101	96	86	89	85	82
630	77	73	76	87	90	91	85	89	92	90	89	90	89	88	87	87	87	89	98	93	83	85	81	76
800	75	71	74	84	88	88	82	86	90	88	87	88	86	86	85	85	85	86	95	89	79	81	76	70
1000	73	69	72	81	85	85	79	83	88	86	85	86	84	83	83	82	82	83	92<	86	75	76	70	62
1250	71	67	68	78	82	82	76	80	85	84	83	83	82	81	80	80	79	80	89	82	71	71	63	53
1600	69	63	65	75	78	79	73	77	81	82	81	81	80	78	77	77	76	77	85	77	66	64	54	41
2000	66	60	61	71	74	75	69	73	78	80	78	79	77	76	75	74	73	73	81	72	60	57	44	28
2500	63	56	57	67	70	71	64	68	74	76	76	76	74	73	72	70	69	69	76	66	53	46	32	11
3150	59	51	53	62	65	66	59	63	69	72	73	74	72	70	68	67	65	64	70	59	45	37	18	
4000	54	46	47	56	59	60	54	58	64	67	69	70	69	67	65	63	61	59	63	50	35	24		
5000	49	42	43	51	55	55	49	53	58	61	65	66	65	63	61	58	55	52	55	40	23	9		
6300	44	37	38	47	50	50	44	48	52	56	60	62	61	59	56	53	49	45	46	27	9			
8000	42	35	36	44	48	48	41	45	50	53	57	58	57	55	51	47	42	36	35	12				
10000	40	33	33	42	45	46	39	42	47	50	53	54	52	49	45	40	33	25	21					
12500	37	31	31	40	43	43	36	39	43	46	49	50	47	43	38	31	23	12	4					
16000	35	28	29	37	40	40	33	36	40	42	45	44	41	36	30	21	11							
20000	33	26	26	35	37	37	30	33	36	38	40	39	34	28	20	9								
25000	31	23	24	32	34	34	26	29	32	32	34	32	26	18	8									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 24

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-135B

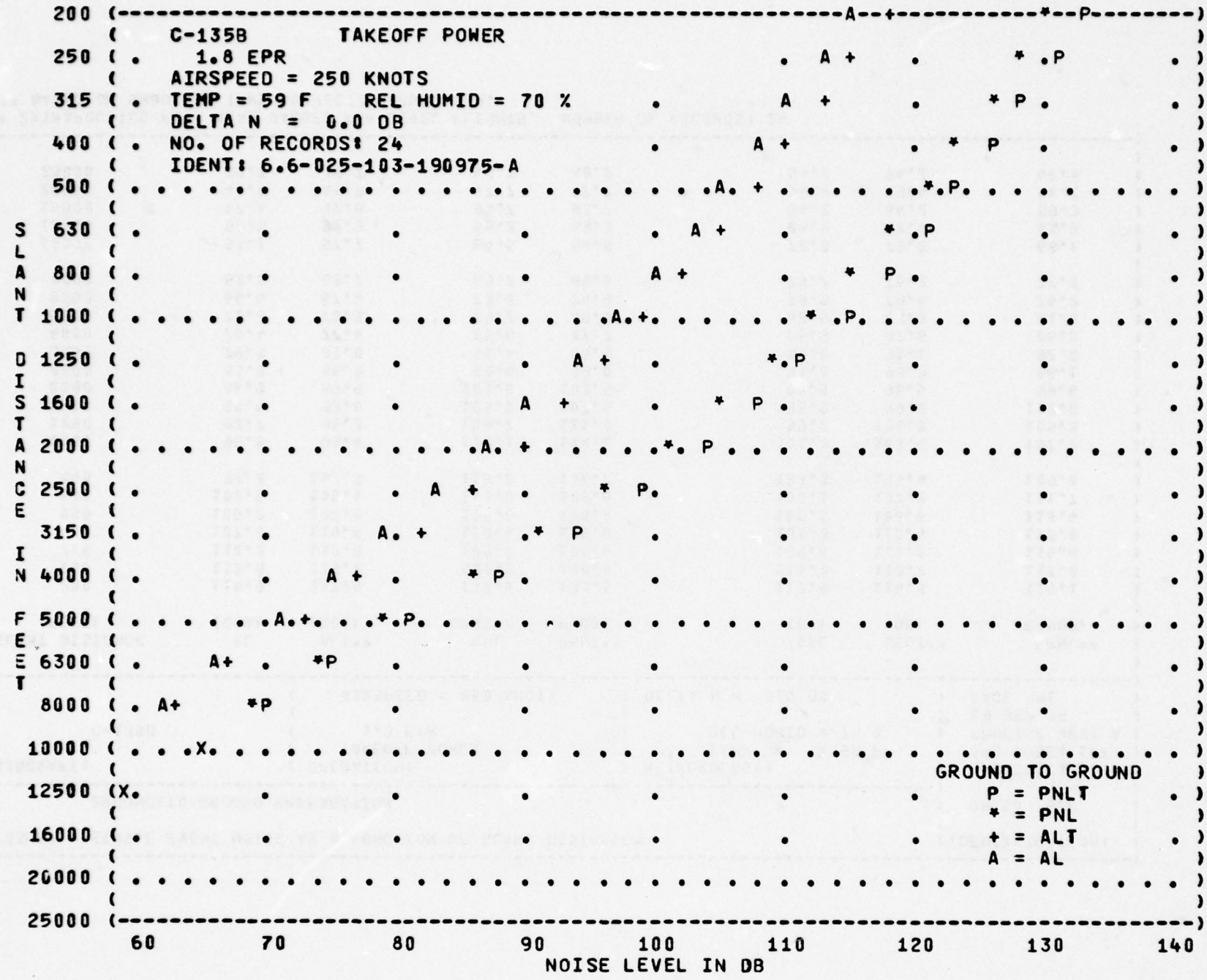
OPERATION:
TAKEOFF POWER
1.8 EPR
AIRSPEED = 250 KNOTS

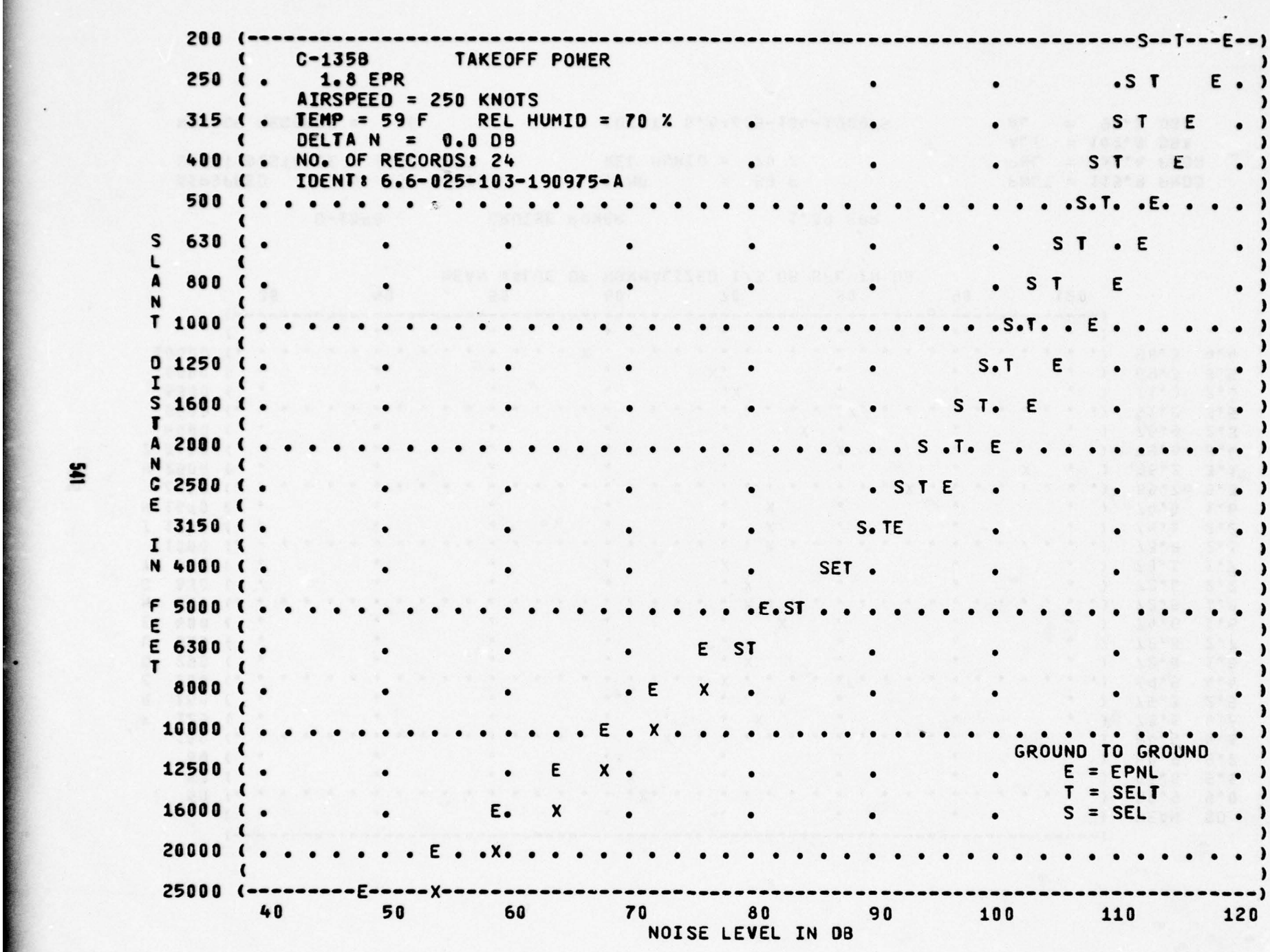
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

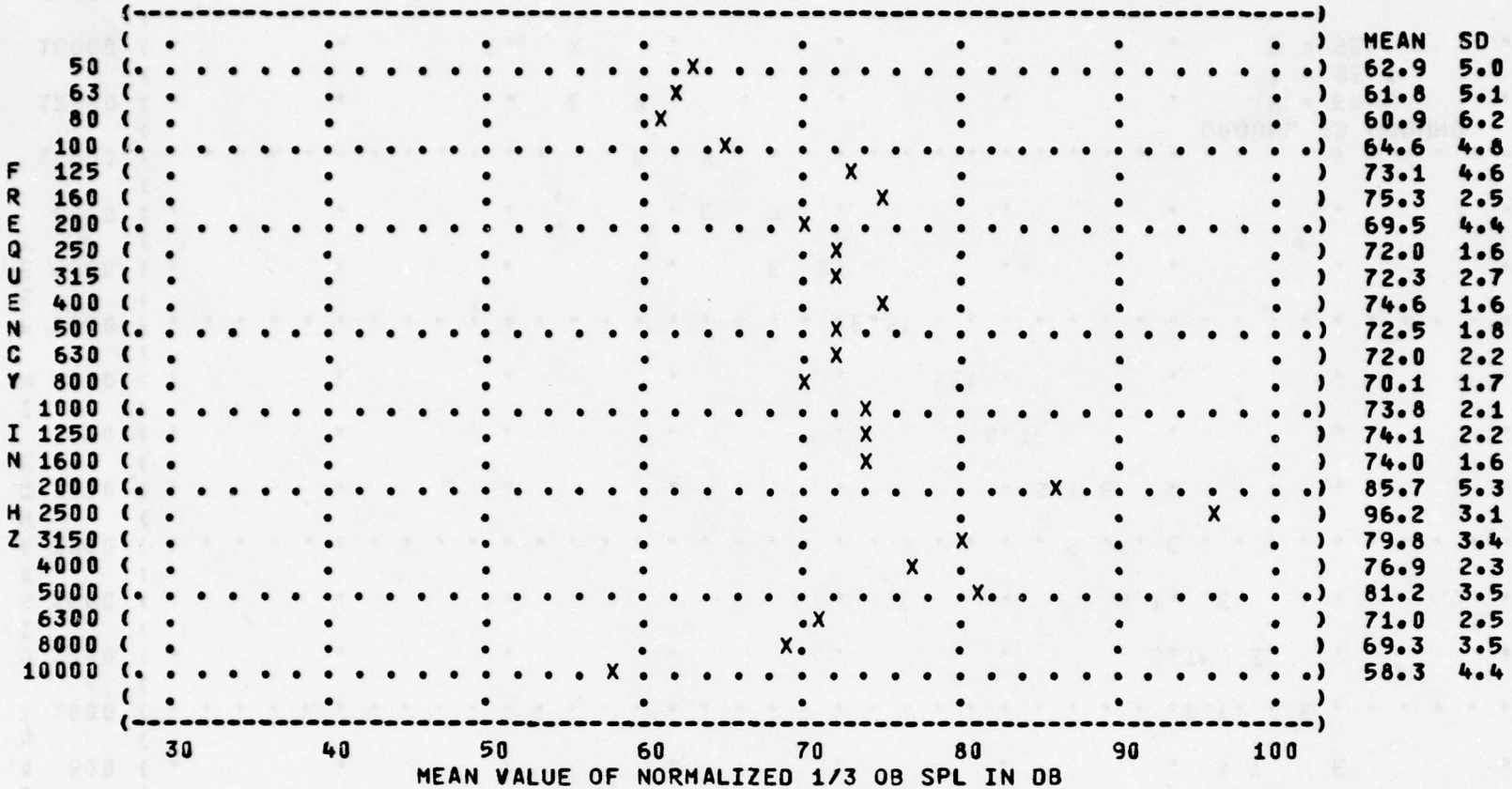
A/C CODE: 025
OPS CODE: 103
PROFILE VER: A
19 SEP 75
PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	114.9	117.5	130.5	133.1	112.5	114.5	119.1
250	112.6	115.2	128.2	130.8	111.2	113.2	117.8
315	110.3	112.8	125.8	128.4	109.8	111.8	116.4
400	107.8	110.4	123.4	125.9	108.3	110.4	115.0
500	105.2	107.8	120.8	123.3	106.8	108.8	113.4
630	102.6	105.1	118.0	120.6	105.1	107.2	111.7
800	99.8	102.3	115.2	117.7	103.3	105.4	109.8
1000	96.8	99.4	112.1	114.6	101.3	103.4	107.7
1250	93.7	96.3	108.7	111.3	99.2	101.3	105.3
1600	90.4	93.0	105.0	107.6	96.9	99.0	102.6
2000	86.9	89.5	101.0	103.5	94.5	96.5	99.6
2500	83.3	85.9	96.4	99.0	91.8	93.9	96.1
3150	79.5	82.0	91.4	93.9	89.0	91.1	92.0
4000	75.4	77.4	85.6	87.7	85.9	87.6	86.8
5000	71.0	72.5	79.2	80.8	82.5	83.8	81.0
6300	66.4	67.4	73.9	74.9	78.9	79.8	76.2
8000	62.2	62.7	69.3	69.8	75.7	76.2	72.3
10000	57.7	57.7	64.5	64.5	72.3	72.3	68.1
12500	52.9	52.9	59.3	59.3	68.4	68.4	63.9
16000	47.6	47.6	53.7	53.7	64.2	64.2	59.3
20000	41.9	41.9	47.7	47.7	59.4	59.4	54.2
25000	35.7	35.7	40.2	40.2	54.2	54.2	47.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 24
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-135B TAKEOFF POWER
1.8 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 24
IDENT: 6.6-025-103-190975-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


C-135B TAKEOFF POWER
1.8 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 24
IDENT: 6.6-025-103-190975-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB



C-135B CRUISE POWER 1.09 EPR

AIRSPEED = 300 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 16

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-025-104-190975

PNLT = 115.9 PNDB
PNL = 111.4 PNDB
ALT = 102.8 DBA
AL = 98.2 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-135B

OPERATION:
CRUISE POWER
1.09 EPR
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 025
OPS CODE: 104
PROFILE VER: A
19 SEP 75
PAGE H2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	77	76	75	79	87	89	84	86	87	89	87	87	85	89	90	90	102	113	98	97	103	95	98	95
250	75	74	73	77	85	87	82	84	85	87	85	85	83	87	87	88	100	111	96	95	100	93	95	91
315	73	72	71	75	83	85	80	82	83	85	83	83	81	85	85	86	98	109	94	92	97	90	92	87
400	71	70	69	73	81	83	78	80	81	83	81	81	79	83	83	83	96	107	91	90	95	87	89	83
500	69	68	67	71	79	81	76	78	79	81	79	78	77	81	81	81	93	104	89	87	92	84	85	78
630	67	66	65	69	77	79	74	76	76	79	77	76	75	78	79	79	91	102	86	84	89	80	80	73
800	65	64	63	67	75	77	72	74	74	77	75	74	72	76	76	76	88	99	83	81	85	76	75	66
1000	63	62	61	65	73	75	70	72	72	75	72	72	70	74	74	74	86	96<	80	77	81	71	69	58
1250	61	60	59	63	71	73	67	70	70	72	70	70	68	71	72	71	83	93	76	73	77	66	62	49
1600	59	58	57	60	69	71	65	68	68	70	68	67	65	69	69	69	80	90	73	68	72	59	54	38
2000	57	56	55	58	67	69	63	66	66	68	66	65	63	66	66	66	77	86	68	63	66	52	44	25
2500	55	54	53	56	65	67	61	63	64	66	63	63	60	64	63	62	73	82	63	57	59	43	33	8
3150	53	52	51	54	63	65	59	61	61	63	61	60	58	61	60	59	69	77	58	50	51	33	18	
4000	51	50	49	52	61	63	57	59	59	61	58	57	55	57	56	55	64	72	51	42	42	20	1	
5000	49	47	46	50	58	60	54	57	56	58	55	54	51	54	52	50	59	66	44	32	30	5		
6300	46	45	44	48	56	58	52	54	54	55	53	51	48	50	48	45	53	58	34	20	16			
8000	44	43	42	46	54	56	49	51	51	52	49	47	44	45	43	39	46	50	23	5				
10000	42	41	40	43	51	53	47	49	48	49	46	44	39	40	37	32	38	39	10					
12500	40	39	38	41	49	51	44	46	45	46	42	39	34	34	30	24	28	27						
16000	38	36	35	38	46	48	41	43	41	42	37	34	28	28	22	14	15	11						
20000	36	34	33	36	44	45	38	39	38	37	32	28	21	19	12	2	1							
25000	33	32	30	33	41	42	34	35	33	32	26	21	13	10	0									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 16
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-135B

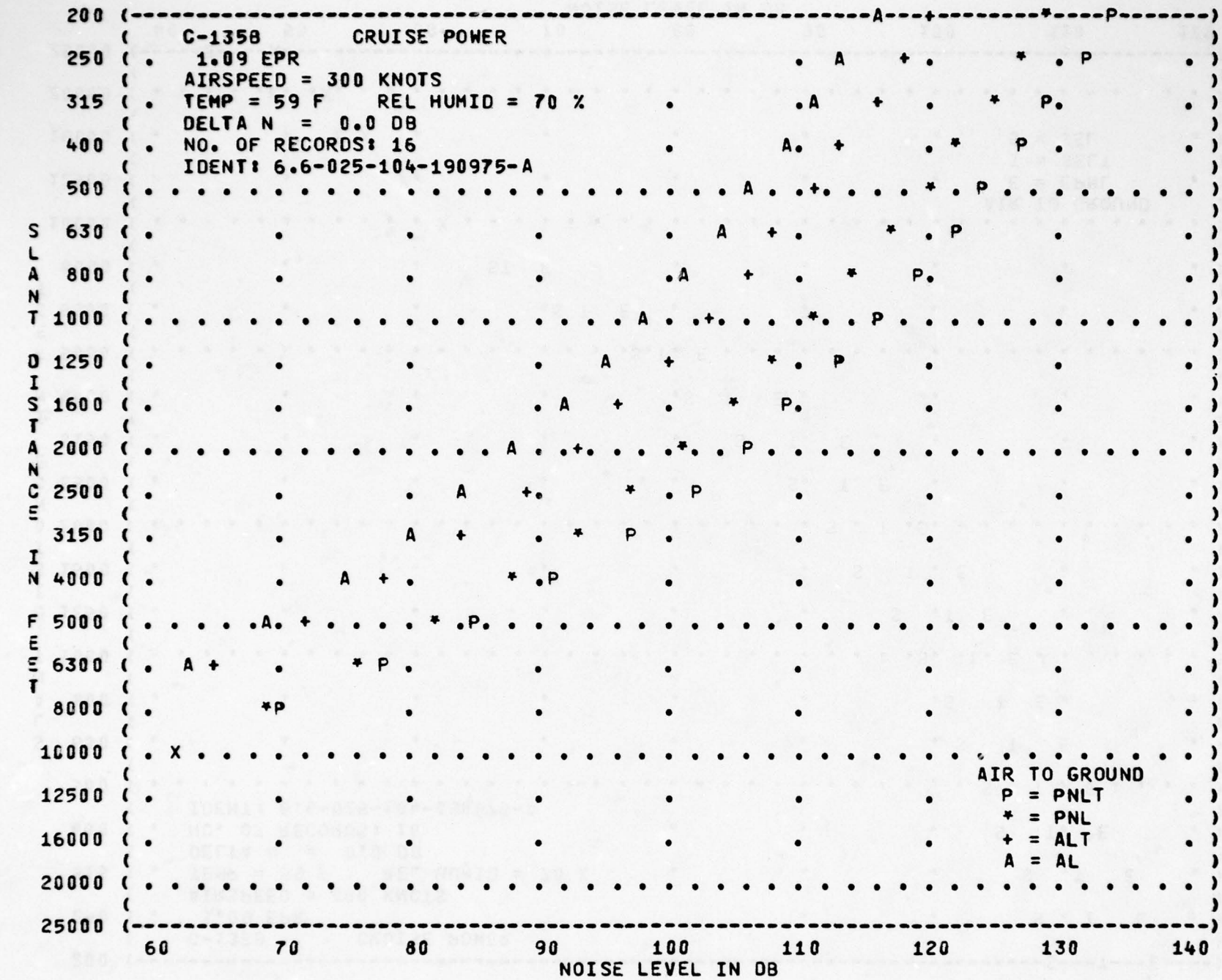
OPERATION:
CRUISE POWER
1.09 EPR
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 025
OPS CODE: 104
PROFILE VER: A
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PAGE I2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	115.7	120.3	129.2	133.8	109.4	113.4	117.1
250	113.5	118.0	127.0	131.5	108.2	112.2	115.8
315	111.2	115.7	124.6	129.2	106.9	110.9	114.5
400	108.8	113.4	122.2	126.8	105.5	109.5	113.1
500	106.3	110.9	119.7	124.3	104.0	108.0	111.6
630	103.8	108.3	117.1	121.6	102.5	106.5	110.0
800	101.1	105.6	114.3	118.9	100.8	104.8	108.2
1000	98.2	102.8	111.4	115.9	98.9	102.9	106.3
1250	95.1	99.7	108.2	112.8	96.8	100.8	104.1
1600	91.8	96.4	104.8	109.4	94.5	98.5	101.7
2000	88.1	92.7	101.2	105.7	91.8	95.8	99.0
2500	84.1	88.7	97.1	101.7	88.8	92.8	96.0
3150	79.6	84.1	92.6	97.2	85.3	89.3	92.5
4000	74.5	78.1	87.7	91.3	81.2	84.4	87.8
5000	68.8	71.6	82.1	84.8	76.5	78.9	82.4
6300	62.8	64.6	75.9	77.7	71.5	73.1	76.4
8000	56.8	57.7	68.9	69.9	66.5	67.3	69.6
10000	51.7	51.7	61.6	61.6	62.4	62.4	62.5
12500	47.3	47.3	56.7	56.7	59.0	59.0	58.5
16000	43.3	43.3	51.5	51.5	55.9	55.9	54.4
20000	39.1	39.1	45.6	45.6	52.8	52.8	49.5
25000	34.8	34.8	39.2	39.2	49.5	49.5	44.1

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 16
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-1358 CRUISE POWER
1.09 EPR
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 16
IDENT: 6.6-025-104-190975-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

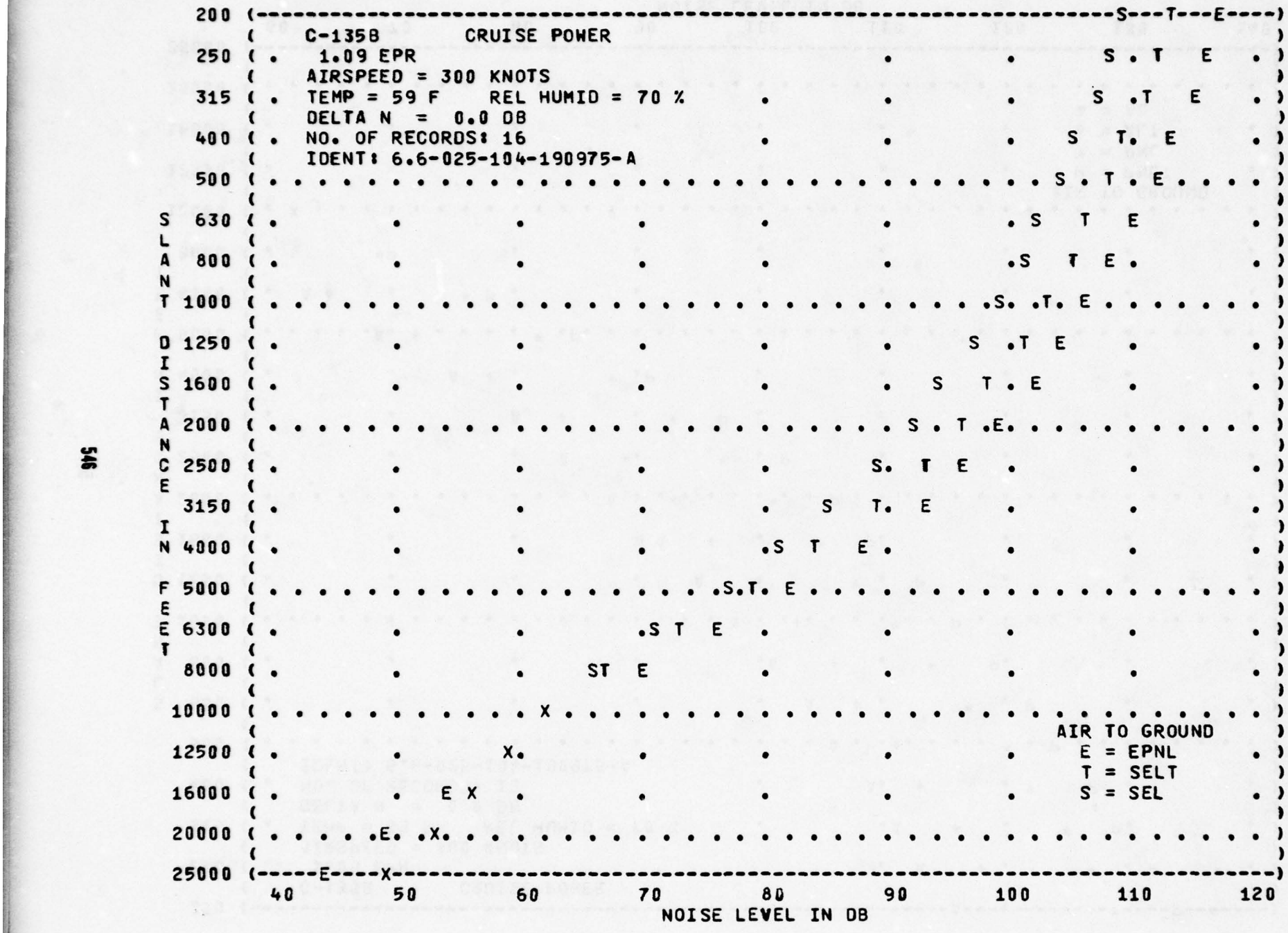

C-135B CRUISE POWER
1.09 EPR
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 16
IDENT: 6.6-025-104-190975-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (OB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-135B

OPERATION:
CRUISE POWER
1.09 EPR
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 OB

A/C CODE: 025
OPS CODE: 104
PROFILE VER: A
19 SEP 75
PAGE L2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	72	71	70	74	82	84	79	81	82	84	82	82	80	84	85	85	97	108	93	92	98	90	93	90
250	70	69	68	72	80	82	77	79	80	82	80	80	78	82	82	83	95	106	91	90	95	88	90	86
315	68	67	66	70	78	80	75	77	78	80	78	78	76	80	80	81	93	104	89	87	92	85	87	82
400	66	65	64	68	76	78	73	75	76	78	76	76	74	78	78	78	91	102	86	85	90	82	84	78
500	64	63	62	66	74	76	70	73	74	76	74	73	72	76	76	76	88	99	84	82	87	79	80	73
630	62	61	60	64	72	73	67	70	71	74	72	71	70	73	74	74	86	97	81	79	84	75	75	68
800	60	59	58	61	69	70	65	68	69	72	70	69	67	71	71	71	83	94	78	76	80	71	70	61
1000	58	57	56	58	66	68	62	65	67	70	67	67	65	69	69	69	81	91<	75	72	76	66	64	53
1250	56	55	53	55	63	64	59	62	64	67	65	65	63	66	67	66	78	88	71	68	72	61	57	44
1600	54	52	50	52	59	61	55	58	61	65	63	62	60	64	64	64	75	85	68	63	67	54	49	33
2000	51	48	46	48	55	57	51	54	57	63	61	60	58	61	61	61	72	81	63	58	61	47	39	20
2500	47	44	42	44	51	53	47	50	53	59	58	58	55	59	58	57	68	77	58	52	54	38	28	3
3150	43	40	37	39	46	48	42	45	49	55	55	55	53	56	55	54	64	72	53	45	46	28	13	
4000	39	35	32	33	41	42	36	39	44	50	51	51	50	52	51	50	59	67	46	37	37	15		
5000	34	30	27	28	36	37	31	34	38	45	47	47	46	49	47	45	54	61	39	27	25			
6300	28	25	22	24	31	33	26	29	32	39	43	43	42	45	43	40	48	53	29	15	11			
8000	26	23	20	22	29	30	24	26	29	36	39	39	38	40	38	34	41	45	18					
10000	24	21	18	19	26	28	21	24	26	33	36	36	33	35	32	27	33	34	5					
12500	22	19	16	17	24	25	19	21	23	30	32	31	28	29	25	19	23	22						
16000	20	16	13	14	21	22	16	18	19	26	27	26	22	23	17	9	10	6						
20000	18	14	11	12	19	19	12	14	16	21	22	20	15	14	7									
25000	15	12	8	9	16	16	9	10	11	16	16	13	7	5										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 16
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-135B

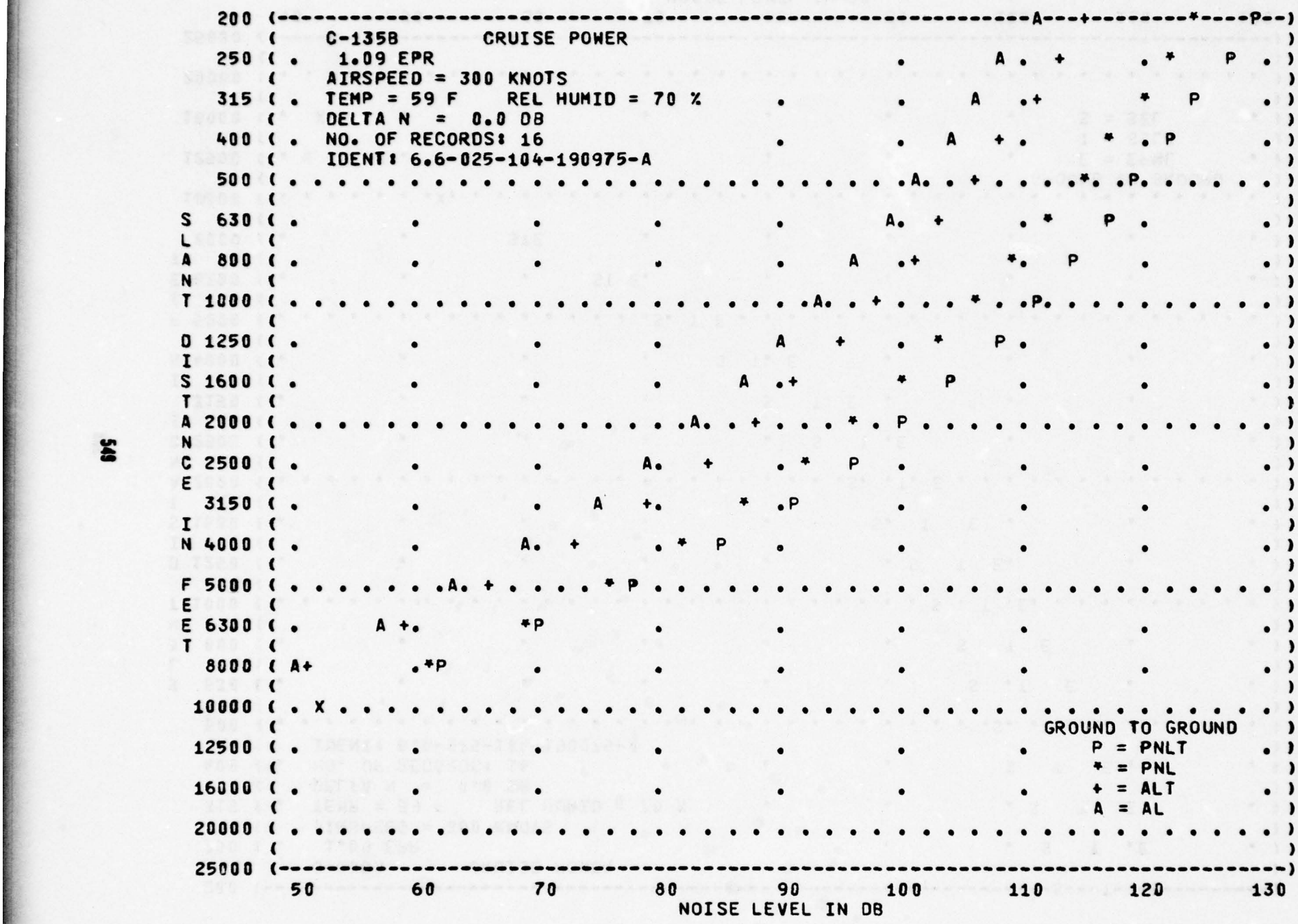
OPERATION:
CRUISE POWER
1.09 EPR
AIRSPEED = 300 KNOTS

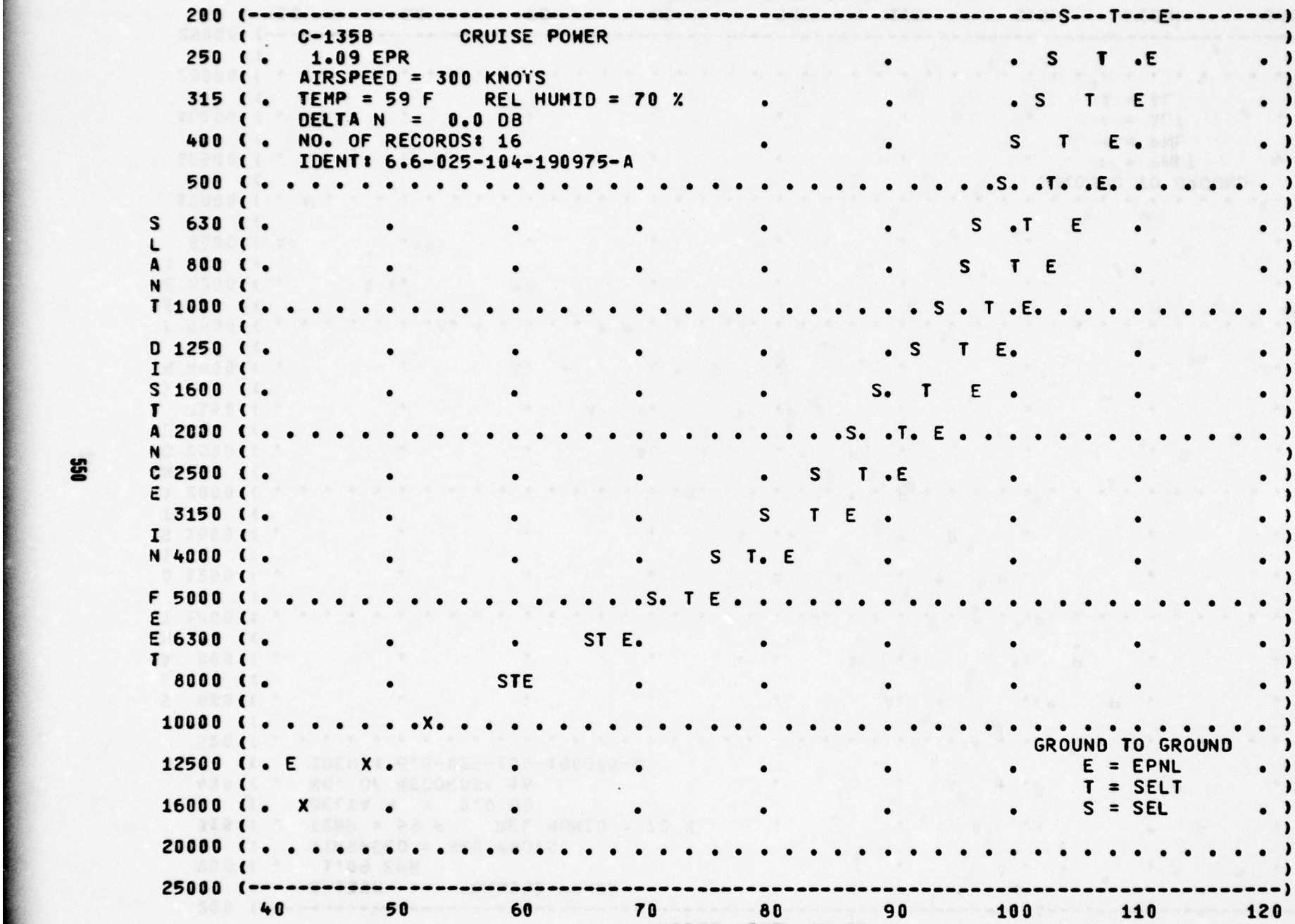
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

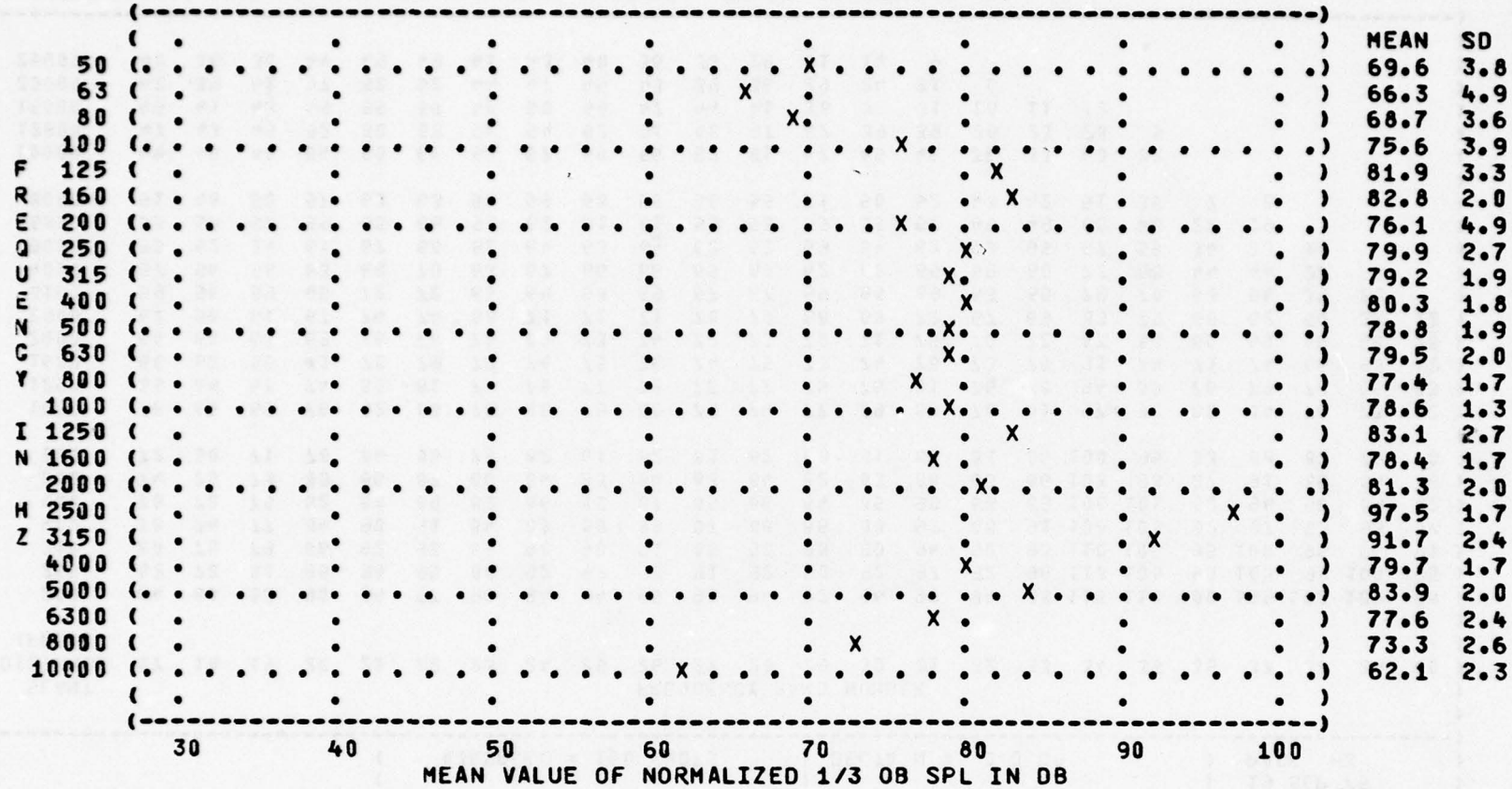
A/C CODE: 025
OPS CODE: 104
PROFILE VER: A
19 SEP 75
PAGE M2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	110.7	115.3	124.2	128.8	104.4	108.4	112.1
250	108.5	113.0	122.0	126.5	103.2	107.2	110.8
315	106.2	110.7	119.6	124.2	101.9	105.9	109.5
400	103.8	108.4	117.2	121.8	100.5	104.5	108.1
500	101.3	105.9	114.7	119.2	99.0	103.0	106.6
630	98.8	103.3	112.0	116.6	97.5	101.5	104.9
800	96.1	100.6	109.3	113.8	95.8	99.8	103.1
1000	93.2	97.8	106.3	110.8	93.9	97.9	101.2
1250	90.1	94.7	103.1	107.6	91.8	95.8	99.0
1600	86.8	91.3	99.6	104.2	89.5	93.5	96.5
2000	83.1	87.7	95.8	100.4	86.8	90.8	93.7
2500	79.1	83.6	91.6	96.2	83.8	87.8	90.5
3150	74.5	79.1	86.9	91.5	80.2	84.2	86.8
4000	69.4	73.0	81.6	85.2	76.1	79.3	81.7
5000	63.5	66.2	75.5	78.2	71.2	73.6	75.8
6300	56.9	58.7	68.6	70.4	65.6	67.2	69.1
8000	49.8	50.7	60.7	61.6	59.4	60.2	61.4
10000	42.7	42.7	51.7	51.7	53.4	53.4	52.6
12500	36.3	36.3	40.5	40.5	48.0	48.0	42.4
16000	30.4	30.4	32.6	32.6	43.1	43.1	35.5
20000	24.4	24.4	21.1	21.1	38.1	38.1	25.0
25000	18.1	18.1	9.5	9.5	32.8	32.8	14.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 16
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-135B CRUISE POWER
1.09 EPR
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 16
IDENT: 6.6-025-104-190975-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB


C-135B CRUISE POWER
1.09 EPR
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 16
IDENT: 6.6-025-104-190975-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB



C-135B APPROACH POWER 1.29 EPR

AIRSPEED = 160 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 20

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-025-105-190975

PNLT = 117.0 PNDB
PNL = 114.1 PNDB
ALT = 103.2 DBA
AL = 100.3 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

AIRCRAFT: C-135B

OPERATION: APPROACH POWER, 1.29 EPR, AIRSPEED = 160 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

IDENTIFICATION: OMEGA 6.6, A/C CODE: 025, OPS CODE: 105, PROFILE VER: A, 19 SEP 75, PAGE H3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	84	80	83	90	96	97	90	94	94	95	93	94	92	94	99	94	98	115	110	100	105	102	102	98
250	82	78	81	88	94	95	88	92	92	93	91	92	90	92	97	92	96	113	108	98	103	99	100	95
315	80	76	79	86	92	93	86	90	90	91	89	90	88	90	94	90	93	110	106	95	100	96	96	91
400	78	74	77	84	90	91	84	88	88	89	87	88	86	88	92	88	91	108	103	92	97	93	93	87
500	76	72	75	82	88	89	82	86	85	87	85	86	84	85	90	86	89	106	101	90	94	90	89	82
630	74	70	73	80	86	87	80	84	83	84	83	84	82	83	88	83	86	103	98	87	91	86	84	76
800	72	68	71	78	84	85	78	82	81	82	81	82	80	81	85	81	84	100	95	83	88	82	79	70
1000	70	66	69	76	82	83	76	80	79	80	79	79	77	79	83	78	81	97<	92	80	84	78	73	62
1250	68	64	67	74	80	81	74	78	77	78	77	77	75	76	81	76	78	94	88	76	79	72	66	53
1600	66	62	65	71	78	79	72	76	75	76	74	75	73	74	78	73	75	91	84	71	74	66	58	42
2000	64	60	63	69	76	77	70	74	73	74	72	73	70	71	75	70	72	87	80	66	69	59	48	28
2500	62	58	61	67	74	74	68	71	71	71	70	70	68	68	72	67	69	83	75	60	62	50	37	12
3150	59	56	59	65	72	72	65	69	68	69	67	67	65	65	69	63	65	79	70	53	54	39	22	
4000	57	54	56	63	69	70	63	67	66	66	65	65	62	62	65	59	60	73	63	44	44	27	5	
5000	55	52	54	61	67	68	61	64	63	64	62	62	59	59	62	55	55	67	55	34	33	11		
6300	53	50	52	59	65	66	59	62	61	61	59	58	55	55	57	49	49	60	46	22	19			
8000	51	48	50	57	63	63	56	59	58	58	56	55	51	50	52	43	42	51	35	7	2			
10000	49	45	48	54	60	61	53	57	55	55	52	51	47	45	46	36	33	40	22					
12500	47	43	45	52	58	58	51	54	52	51	48	47	42	39	39	28	23	28	5					
16000	45	41	43	49	55	55	48	50	48	47	44	41	36	32	31	18	11	12						
20000	42	39	41	47	52	52	44	47	45	43	39	36	29	24	21	6								
25000	40	36	38	44	49	49	41	43	40	38	33	29	21	14	9									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 20

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-1358

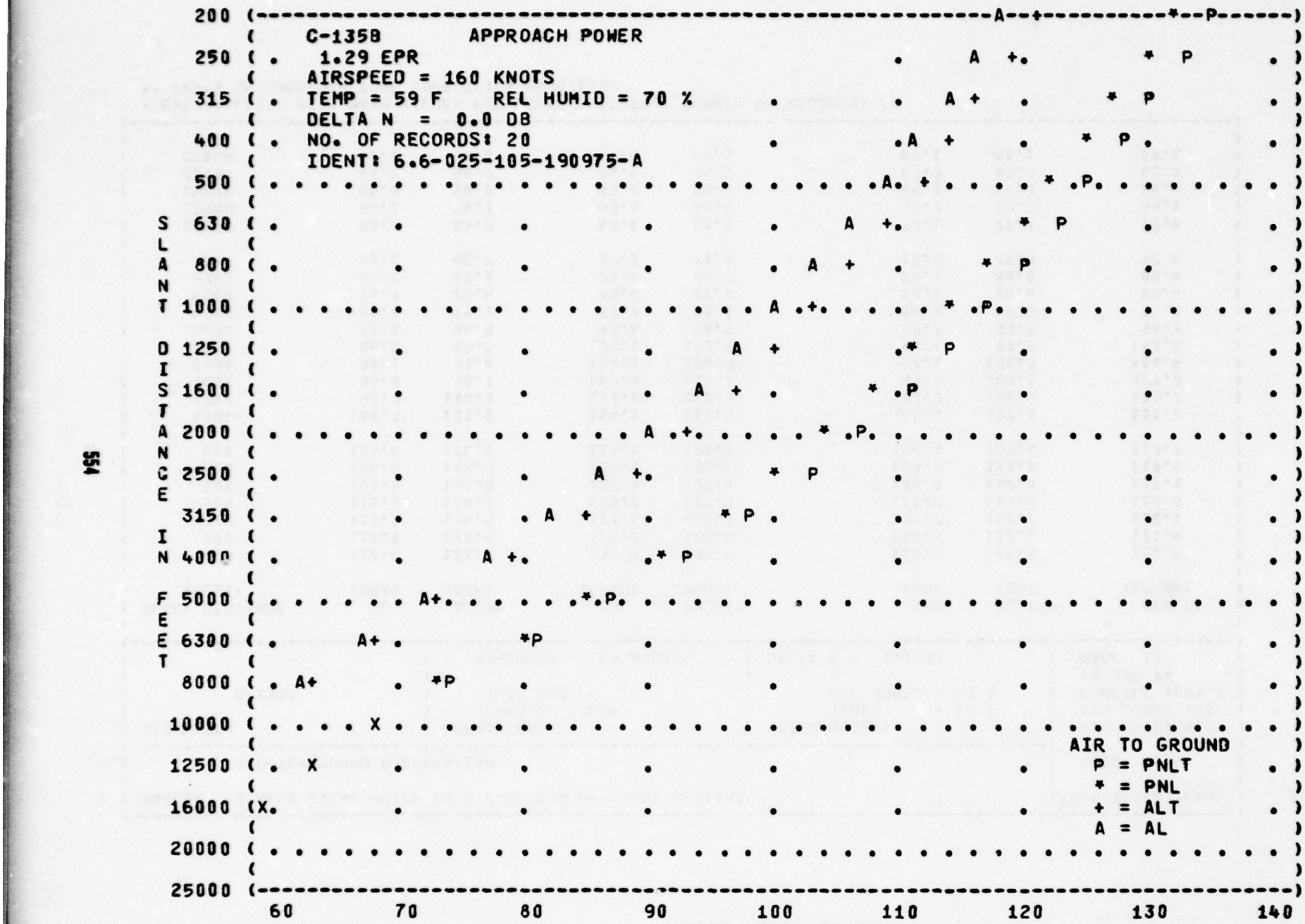
OPERATION:
APPROACH POWER
1.29 EPR
AIRSPEED = 160 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 025
OPS CODE: 105
PROFILE VER: A
19 SEP 75
PAGE I3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	118.2	121.1	132.0	134.9	115.3	118.3	122.7
250	115.9	118.8	129.7	132.6	114.0	117.1	121.4
315	113.5	116.5	127.4	130.3	112.7	115.7	120.1
400	111.1	114.0	125.0	127.9	111.2	114.3	118.6
500	108.6	111.5	122.4	125.4	109.7	112.8	117.1
630	106.0	108.9	119.8	122.7	108.1	111.2	115.5
800	103.2	106.2	117.1	120.0	106.4	109.4	113.7
1000	100.3	103.2	114.1	117.0	104.4	107.5	111.8
1250	97.2	100.1	111.0	113.9	102.3	105.4	109.7
1600	93.8	96.7	107.6	110.5	99.9	103.0	107.3
2000	90.1	93.0	104.0	106.9	97.2	100.3	104.6
2500	86.0	89.0	100.0	102.9	94.1	97.2	101.6
3150	81.6	84.5	95.6	98.5	90.7	93.8	98.3
4000	76.8	79.1	90.7	93.1	86.9	89.3	93.8
5000	71.7	73.4	85.4	87.1	82.8	84.6	88.9
6300	66.7	67.9	79.5	80.7	78.8	80.0	83.4
8000	62.1	62.7	73.2	73.8	75.2	75.9	77.4
10000	58.0	58.0	68.0	68.0	72.1	72.1	72.6
12500	54.1	54.1	63.4	63.4	69.2	69.2	69.1
16000	50.2	50.2	59.0	59.0	66.3	66.3	65.6
20000	46.2	46.2	54.5	54.5	63.3	63.3	62.1
25000	42.0	42.0	49.6	49.6	60.1	60.1	58.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 20
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-135B APPROACH POWER
1.29 EPR
AIRSPEED = 160 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 20
IDENT: 6.6-025-105-190975-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

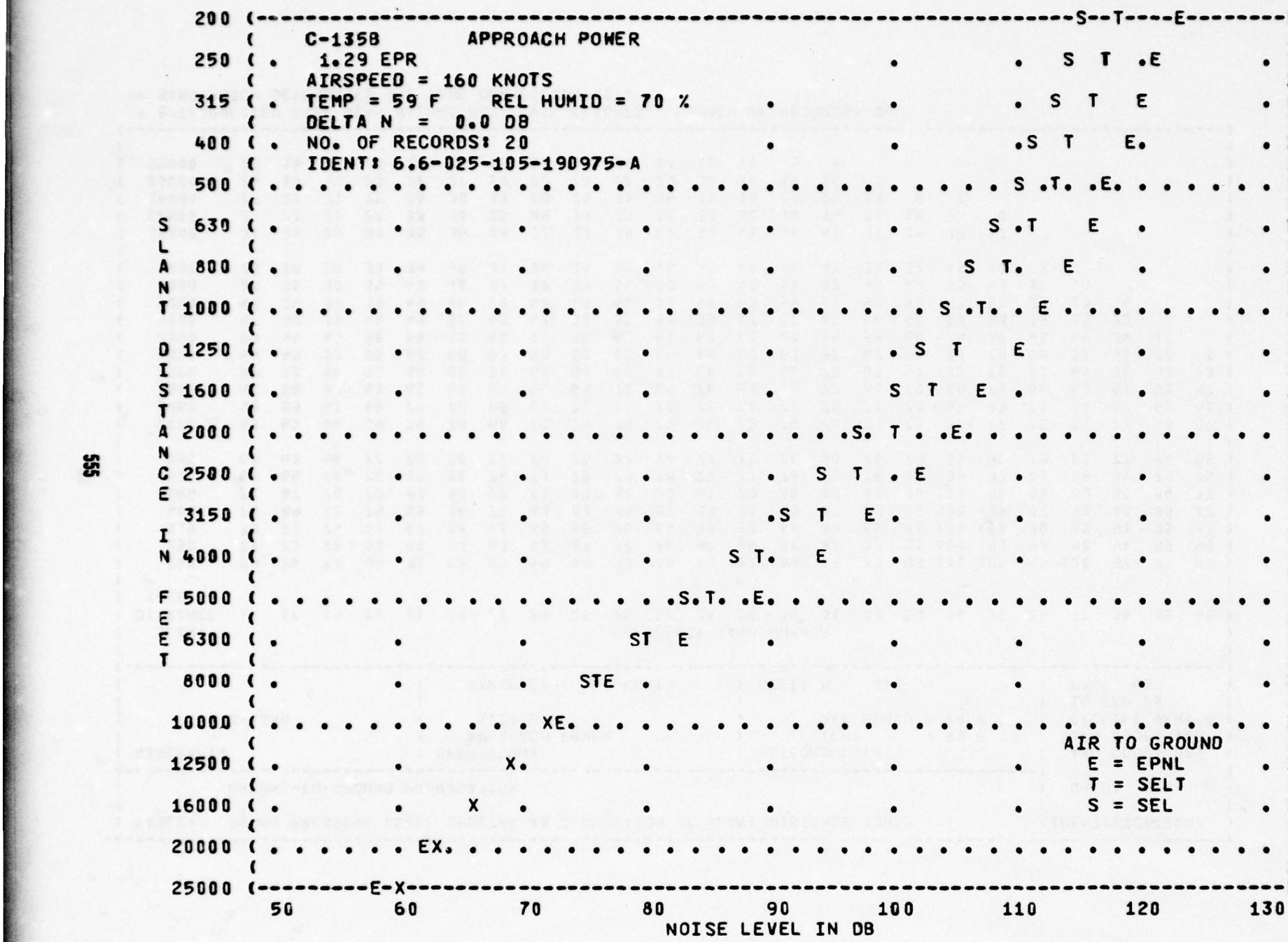

C-135B APPROACH POWER
1.29 EPR
AIRSPEED = 160 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 20
IDENT: 6.6-025-105-190975-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 025
OPS CODE: 105
PROFILE VER: A
19 SEP 75
PAGE L3

AIRCRAFT: C-135B

OPERATION:
APPROACH POWER
1.29 EPR
AIRSPEED = 160 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	79	75	78	85	91	92	85	89	89	90	88	89	87	89	94	89	93	110	105	95	100	97	97	93
250	77	73	76	83	89	90	83	87	87	88	86	87	85	87	92	87	91	108	103	93	98	94	95	90
315	75	71	74	81	87	88	81	85	85	86	84	85	83	85	89	85	88	105	101	90	95	91	91	86
400	73	69	72	79	85	86	79	83	83	84	82	83	81	83	87	83	86	103	98	87	92	88	88	82
500	71	67	70	77	83	83	77	81	80	82	80	81	79	80	85	81	84	101	96	85	89	85	84	77
630	69	65	68	75	80	81	74	78	78	79	78	79	77	78	83	78	81	98	93	82	86	81	79	71
800	67	63	66	72	78	78	71	76	76	77	76	77	75	76	80	76	79	95	90	78	83	77	74	65
1000	65	61	64	69	75	75	68	73	74	75	74	74	72	74	78	73	76	92<	87	75	79	73	68	57
1250	63	59	61	66	72	72	65	69	71	73	72	72	70	71	76	71	73	89	83	71	74	67	61	48
1600	61	56	57	63	68	68	62	66	68	71	69	70	68	69	73	68	70	86	79	66	69	61	53	37
2000	57	53	54	59	64	65	58	62	64	69	67	68	65	66	70	65	67	82	75	61	64	54	43	23
2500	54	49	50	55	60	60	53	58	60	65	65	65	63	63	67	62	64	78	70	55	57	45	32	7
3150	50	44	45	50	55	55	49	53	56	61	61	62	60	60	64	58	60	74	65	48	49	34	17	
4000	45	39	39	44	49	50	43	47	51	56	57	59	57	57	60	54	55	68	58	39	39	22		
5000	40	34	35	39	45	45	38	42	45	51	53	55	53	54	57	50	50	62	50	29	28	6		
6300	35	30	30	35	40	40	33	37	39	45	49	50	49	50	52	44	44	55	41	17	14			
8000	33	28	28	33	38	38	31	34	36	42	46	47	45	45	47	38	37	46	30	2				
10000	31	25	26	30	35	35	28	32	33	39	42	43	41	40	41	31	28	35	17					
12500	29	23	23	28	33	33	25	29	30	35	38	39	36	34	34	23	18	23	0					
16000	27	21	21	25	30	30	22	25	26	31	34	33	30	27	26	13	6	7						
20000	24	19	19	23	27	27	19	22	23	27	29	28	23	19	16	1								
25000	22	16	16	20	24	24	15	18	18	22	23	21	15	9	4									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 20
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-135B

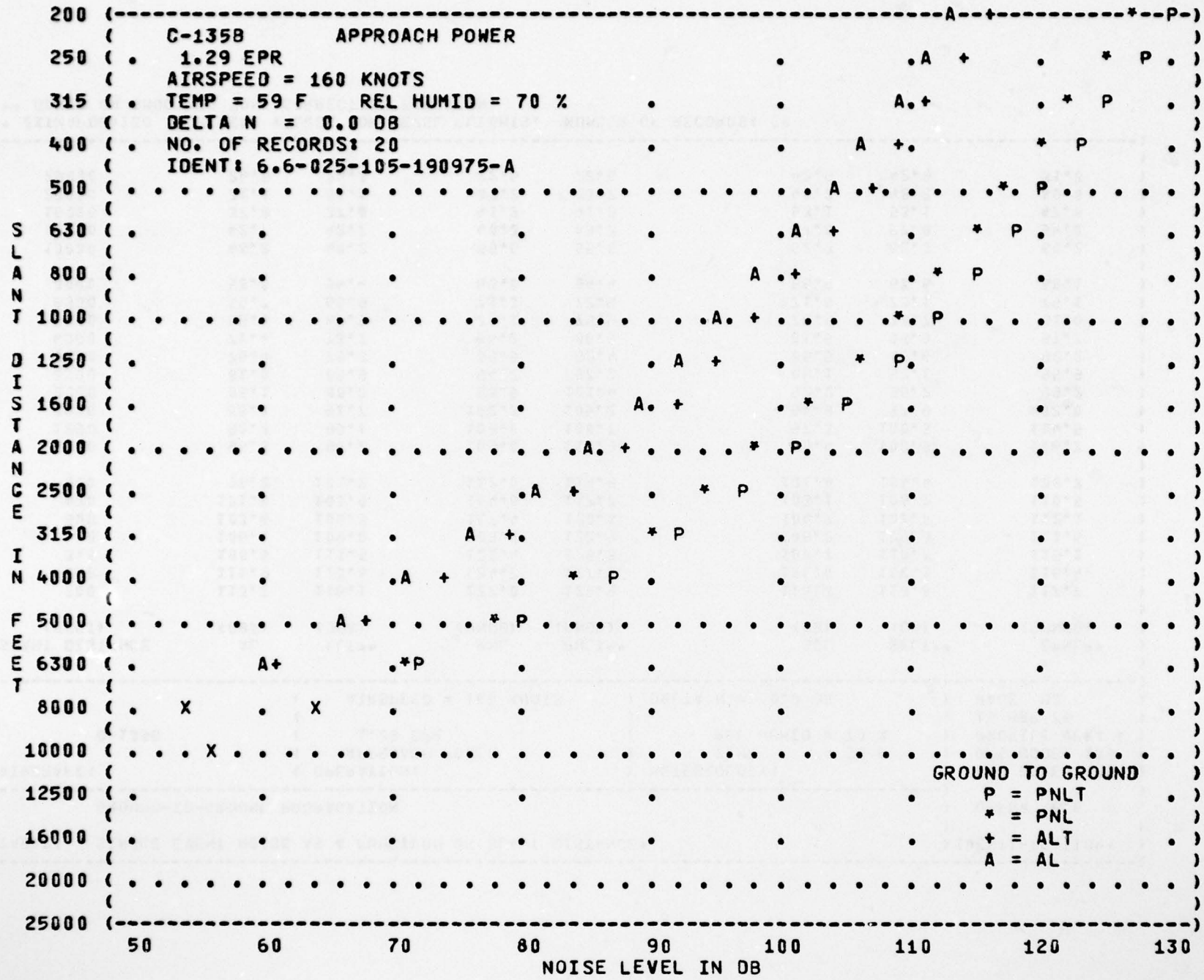
OPERATION:
APPROACH POWER
1.29 EPR
AIRSPEED = 160 KNOTS

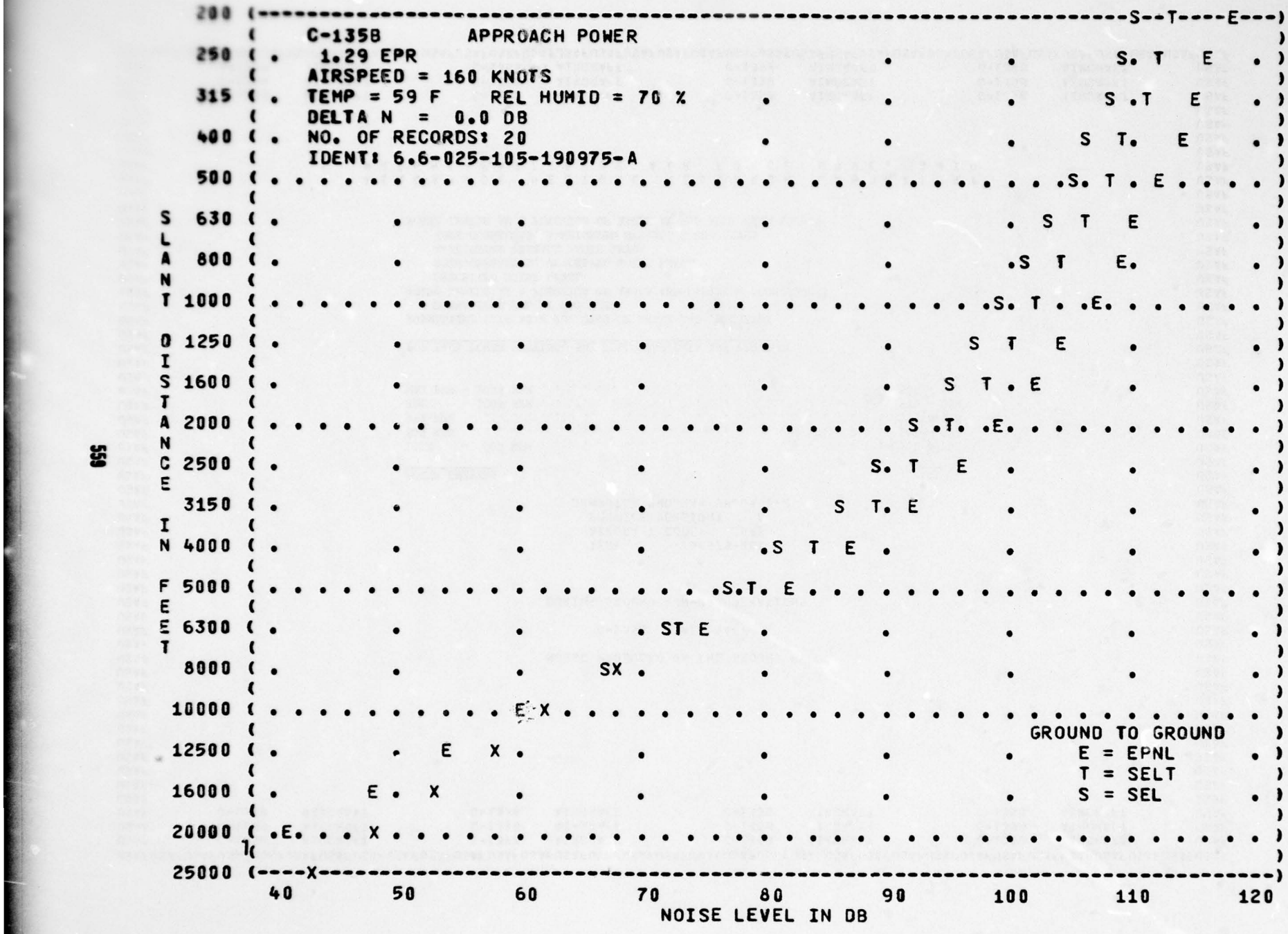
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 025
OPS CODE: 105
PROFILE VER: A
19 SEP 75
PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	113.2	116.1	127.0	129.9	110.3	113.3	117.7
250	110.9	113.8	124.7	127.6	109.0	112.1	116.4
315	108.5	111.5	122.4	125.3	107.7	110.7	115.1
400	106.1	109.0	120.0	122.9	106.2	109.3	113.6
500	103.6	106.5	117.4	120.3	104.7	107.8	112.1
630	101.0	103.9	114.8	117.7	103.1	106.2	110.5
800	98.2	101.2	112.0	114.9	101.4	104.4	108.7
1000	95.3	98.2	109.0	111.9	99.4	102.5	106.7
1250	92.2	95.1	105.8	108.7	97.3	100.3	104.5
1600	88.8	91.7	102.3	105.2	94.9	97.9	102.0
2000	85.1	88.0	98.5	101.4	92.2	95.2	99.2
2500	81.0	83.9	94.2	97.2	89.1	92.1	95.9
3150	76.4	79.3	89.5	92.4	85.5	88.6	92.2
4000	71.4	73.7	84.2	86.5	81.5	83.9	87.3
5000	65.8	67.5	78.1	79.9	76.9	78.7	81.6
6300	59.7	60.9	71.3	72.5	71.8	73.1	75.1
8000	53.8	54.4	63.8	64.4	66.9	67.6	68.1
10000	48.2	48.2	55.6	55.6	62.3	62.3	60.2
12500	42.7	42.7	48.3	48.3	57.8	57.8	54.0
16000	37.0	37.0	41.2	41.2	53.1	53.1	47.8
20000	31.1	31.1	33.2	33.2	48.2	48.2	40.8
25000	24.8	24.8	22.6	22.6	42.9	42.9	31.3

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 20
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-1358 APPROACH POWER
1.29 EPR
AIRSPEED = 160 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 20
IDENT: 6.6-025-105-190975-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB


C-1358 APPROACH POWER
1.29 EPR
AIRSPEED = 160 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 20
IDENT: 6.6-025-105-190975-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

USAF C-135B AIRCRAFT C-135B AIRCRAFT C-135B AIRCRAFT C-135B AIRCRAFT USAF

NOISE PRODUCED ON THE GROUND BY

C-135B AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 75-525-001
AIRCRAFT CODE: 525
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING	PAGE
IDLE - 60% RPM	561 - 566
80% RPM	567 - 572
95% RPM	573 - 578
NRT - 100% RPM	579 - 584
MAX PWR - 104% RPM	585 - 590

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
- NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
- PERCEIVED NOISE LEVEL
- TONE-CORRECTED, PERCEIVED NOISE LEVEL
- A-WEIGHTED OVERALL SOUND LEVEL
- TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF C-135B AIRCRAFT C-135B AIRCRAFT C-135B AIRCRAFT C-135B AIRCRAFT USAF

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 01
AIRCRAFT CODE 525
OPERATION CODE 06013
PROFILE VERSION A
20 MAY 76
PAGE C1

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
IDLE, 60% RPM, C-135B
SINGLE ENGINE
EST. FROM B-52H
SINGLE ENG. +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -8.7 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	67	69	68	67	69	69	69	69	71	71	71	69	70	70	68	63	61	65	60
63	68	68	67	68	67	69	72	70	70	69	71	71	69	69	68	64	61	62	71
80	66	66	66	65	66	66	67	67	68	68	66	67	66	66	65	60	59	61	58
100	69	69	69	68	69	70	69	71	69	69	67	68	69	67	67	64	59	62	59
125	71	71	69	69	69	69	69	68	69	71	68	68	69	68	68	63	56	62	54
160	71	70	71	70	70	70	70	68	69	69	68	68	67	70	68	61	54	58	52
200	70	70	69	69	69	69	70	70	71	71	70	70	70	70	69	63	51	54	51
250	70	71	71	70	70	69	71	71	70	71	71	69	69	68	67	63	48	48	51
315	68	69	69	67	68	66	67	67	67	67	68	69	68	66	64	60	46	48<	50<
400	71	72	72	70	70	69	70	68	67	69	67	69	66	67	64	60	50	48	49<
500	74	74	75	74	74	74	73	70	70	70	68	69	68	67	63	60	51	52	48
630	75	75	77	75	74	75	74	71	69	69	68	69	70	68	65	62	52	52	49
800	73	75	75	75	73	74	75	69	70	68	68	68	69	67	65	62	51	53	51
1000	84	87	85	85	84	87	87	80	81	77	77	76	79	77	75	71	61	64	61
1250	83	87	85	87	84	84	87	79	81	76	77	74	77	77	74	69	59	59	57
1600	77	77	78	78	76	77	76	72	72	69	68	68	69	66	64	61	52	50	49
2000	82	82	83	83	82	80	82	76	75	73	72	73	73	71	69	63	55	55	52
2500	79	80	79	80	81	78	79	74	74	72	71	72	72	70	67	62	54	53	49
3150	83	82	82	82	82	81	80	78	78	74	75	75	76	72	70	65	56	54	51
4000	78	79	79	79	78	76	78	74	74	73	73	73	73	71	68	62	53	51	49
5000	77	77	78	77	77	76	75	73	72	70	70	73	73	70	65	60	50	49	46
6300	72	73	74	73	73	72	73	70	68	67	67	68	70	65	62	56	45	44	41
8000	69	71	71	71	69	69	70	67	65	65	65	67	68	64	60	54	43	41	38
10000	61	63	63	63	63	62	63	60	60	59	59	60	63	58	55	47	36	35	32
OVERALL	91	92	92	92	91	91	92	87	88	85	85	85	86	84	82	77	70	72	73

XXX< = EXTRAPOLATED OR INTERPOLATED SPL

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
IDLE, 60% RPM, C-135B
SINGLE ENGINE
EST. FROM B-52H
SINGLE ENG. +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -8.7 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 01
AIRCRAFT CODE 525
OPERATION CODE 06013
PROFILE VERSION A
20 MAY 76
PAGE D1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	106.5	106.8	106.8	106.7	106.4	105.3	105.0	102.7	102.3	99.6	99.9	100.3	100.8	98.2	95.6	90.8	81.6	81.1	78.5
250	104.2	104.5	104.5	104.4	104.1	103.0	103.3	100.4	100.0	97.3	97.6	98.0	98.5	95.9	93.3	88.5	79.3	78.8	76.2
315	101.9	102.2	102.1	102.0	101.8	100.7	100.9	98.0	97.7	95.0	95.3	95.7	96.1	93.0	91.0	86.1	76.9	76.5	73.8
400	99.4	99.8	99.7	99.6	99.3	98.2	98.5	95.6	95.3	92.5	92.8	93.2	93.6	91.1	88.5	83.7	74.5	74.0	71.4
500	96.9	97.2	97.2	97.1	96.8	95.7	96.0	93.0	92.7	90.0	90.3	90.6	91.1	88.5	85.9	81.1	71.9	71.5	68.8
630	94.2	94.5	94.5	94.4	94.1	93.0	93.3	90.3	90.0	87.3	87.6	87.9	88.4	85.9	83.3	78.4	69.1	68.9	66.3
800	91.4	91.7	91.6	91.6	91.3	90.2	90.5	87.5	87.2	84.4	84.7	85.1	85.5	83.0	80.4	75.6	66.2	66.3	63.6
1000	88.3	88.7	88.6	88.5	88.3	87.2	87.7	84.4	84.2	81.4	81.6	82.0	82.4	80.0	77.3	72.6	63.1	63.4	60.7
1250	85.1	85.4	85.3	85.3	85.0	83.9	84.7	81.1	80.9	78.1	78.3	78.7	79.1	76.7	74.1	69.3	59.7	60.4	57.6
1600	81.5	82.0	82.1	82.0	81.4	80.5	81.7	77.6	77.3	74.5	74.7	75.1	75.4	73.2	70.5	65.8	55.9	57.1	54.3
2000	77.8	78.7	78.6	78.7	77.9	77.3	78.4	73.6	73.5	70.7	70.8	71.1	71.5	69.7	67.0	62.3	52.0	53.4	50.5
2500	73.9	75.1	74.7	75.1	74.0	73.8	74.8	69.3	69.8	65.7	66.7	66.7	67.4	65.0	63.3	58.7	47.6	49.6	46.2
3150	69.7	71.2	70.6	71.2	69.8	70.0	70.9	65.3	65.8	62.4	62.5	62.1	63.4	61.3	59.3	54.5	43.0	44.7	41.6
4000	64.9	66.9	66.3	66.9	65.2	65.8	66.7	61.0	61.4	58.1	58.1	57.5	59.0	57.4	54.9	50.0	38.1	39.9	36.5
5000	60.1	62.3	61.6	62.3	60.5	61.4	62.1	56.3	56.0	53.2	53.0	52.5	54.3	52.5	50.0	44.9	32.4	34.5	29.6
6300	54.9	57.2	56.3	57.1	55.1	56.5	57.0	51.0	51.4	47.7	47.4	46.9	49.0	47.2	44.4	39.0	22.8	27.0	22.4
8000	49.6	52.0	51.2	51.5	49.8	51.3	51.8	45.5	46.1	41.7	41.3	40.9	43.1	41.3	38.5	32.6	13.5	18.8	13.5
10000	43.3	46.1	45.1	45.2	43.6	45.5	46.1	38.8	39.4	35.1	34.7	34.1	36.6	34.4	30.8	25.1	4.3	10.0	4.6
12500	35.9	38.9	37.8	37.9	36.1	38.1	38.9	31.0	31.2	26.9	26.0	25.4	28.3	26.4	21.1	11.2		1.1	
16000	26.3	29.8	28.6	28.8	26.7	29.3	29.8	18.8	19.9	11.7	9.8	10.4	14.7	10.7	7.1				
20000	9.9	14.6	14.1	14.0	10.2	14.0	13.6	6.7	8.6				1.1						
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
IDLE, 60% RPM, C-135B
SINGLE ENGINE
EST. FROM B-52H
SINGLE ENG. +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -8.7 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 01
AIRCRAFT CODE 525
OPERATION CODE 06013
PROFILE VERSION A
20 MAY 76
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	108.4	109.3	108.9	108.9	108.6	107.9	108.2	104.7	104.3	101.2	101.9	101.9	102.7	100.0	97.6	92.4	83.6	83.8	80.8
250	106.1	107.1	106.6	106.7	106.3	105.7	105.9	102.4	102.0	98.9	99.6	99.6	100.4	97.7	95.3	90.2	81.3	81.5	78.5
315	103.8	104.7	104.2	104.3	104.0	103.3	103.6	100.0	99.7	96.5	97.2	97.3	98.0	95.4	92.9	87.8	78.9	79.1	76.2
400	101.4	102.3	101.8	101.9	101.5	100.9	101.1	97.6	97.2	94.1	94.8	94.8	95.6	93.0	90.5	85.4	76.5	76.7	73.7
500	98.8	99.7	99.3	99.3	99.0	98.3	98.6	95.0	94.7	91.5	92.2	92.2	93.0	90.4	87.9	82.8	73.9	74.1	71.1
630	96.1	97.1	96.6	96.7	96.3	95.7	95.9	92.3	92.0	88.8	89.5	89.5	90.3	87.7	85.2	80.1	71.1	71.6	68.6
800	93.3	94.2	93.8	93.8	93.5	92.8	93.1	89.5	89.2	86.0	86.7	86.7	87.4	84.8	82.4	77.3	68.2	68.9	65.9
1000	90.3	91.2	90.7	90.8	90.4	89.8	90.3	86.4	86.1	82.9	83.6	83.6	84.3	81.8	79.3	74.2	65.1	66.1	63.0
1250	87.0	88.0	87.5	87.5	87.2	86.5	87.4	83.1	82.8	79.6	80.3	80.3	81.0	78.5	76.0	71.0	61.7	63.1	60.0
1500	83.4	84.5	84.2	84.3	83.6	83.2	84.3	79.6	79.3	76.1	76.7	76.7	77.4	75.0	72.4	67.4	57.9	59.8	56.6
2000	79.7	81.2	80.7	80.9	80.1	79.9	81.0	75.6	75.5	72.2	72.7	72.7	73.4	71.5	69.0	64.0	54.0	56.1	52.8
2500	75.8	77.6	76.8	77.3	76.2	76.4	77.4	71.3	71.8	68.3	68.6	68.3	69.3	67.8	65.3	60.3	49.6	52.2	48.5
3150	71.6	73.7	72.7	73.5	72.0	72.6	73.6	67.3	67.8	64.0	64.5	63.7	65.3	63.7	61.3	56.2	45.0	47.4	43.9
4000	66.5	69.0	68.0	68.8	67.0	68.0	68.8	62.6	63.0	59.4	59.7	58.8	60.5	58.9	56.5	51.3	39.7	42.0	38.4
5000	61.2	63.8	62.8	63.6	61.8	63.0	63.7	57.5	57.8	54.1	54.2	53.5	55.4	53.6	51.1	45.9	33.6	36.1	31.0
6300	55.7	58.2	57.2	58.0	56.0	57.5	58.1	51.8	52.2	48.3	48.2	47.5	49.7	48.0	45.2	39.6	23.6	28.1	23.4
8000	50.0	52.5	51.6	52.0	50.2	51.8	52.4	45.9	46.5	42.0	41.7	41.3	43.5	41.7	38.9	32.9	13.9	19.4	14.0
10000	43.3	46.1	45.1	45.2	43.6	45.5	46.1	38.8	39.4	35.1	34.7	34.1	36.6	34.4	30.8	25.1	4.3	10.0	4.6
12500	35.9	38.9	37.8	37.9	36.1	38.1	38.9	31.0	31.2	26.9	26.0	25.4	28.3	26.4	21.1	11.2		1.1	
16000	26.3	29.8	28.6	28.8	26.7	29.3	29.8	18.8	19.9	11.7	9.8	10.4	14.7	10.7	7.1				
20000	9.9	14.6	14.1	14.3	10.2	14.6	13.6	6.7	8.6				1.1						
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 01
AIRCRAFT CODE 525
OPERATION CODE 06013
PROFILE VERSION A
20 MAY 76
PAGE F1

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
IDLE, 60% RPM, C-135B
SINGLE ENGINE
EST. FROM B-52H
SINGLE ENG. +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -8.7 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	93.3	94.9	94.4	94.8	93.7	93.4	94.6	89.2	89.5	86.1	86.2	86.1	87.2	85.4	82.8	78.2	68.8	69.6	66.9
250	91.1	92.8	92.2	92.6	91.5	91.3	92.4	87.1	87.3	83.9	84.0	83.9	85.0	83.2	80.6	76.0	66.6	67.5	64.8
315	88.9	90.6	90.0	90.4	89.3	89.1	90.2	84.8	85.1	81.7	81.8	81.6	82.7	81.0	78.4	73.8	64.4	65.3	62.6
400	86.6	88.3	87.7	88.2	87.0	86.8	88.0	82.5	82.9	79.4	79.5	79.2	80.4	78.7	76.2	71.6	62.2	63.1	60.4
500	84.3	86.0	85.4	85.8	84.7	84.5	85.7	80.2	80.5	77.0	77.1	76.8	78.1	76.4	73.9	69.3	59.9	60.9	58.2
630	81.8	83.6	83.0	83.5	82.3	82.2	83.4	77.8	78.2	74.6	74.7	74.3	75.6	74.0	71.5	67.0	57.6	58.6	55.9
800	79.3	81.2	80.5	81.0	79.8	79.8	81.0	75.3	75.7	72.1	72.2	71.8	73.1	71.5	69.1	64.6	55.1	56.2	53.6
1000	76.7	78.7	78.0	78.5	77.2	77.3	78.5	72.7	73.2	69.5	69.6	69.1	70.5	69.0	66.5	62.1	52.6	53.8	51.2
1250	74.0	76.1	75.3	75.8	74.4	74.7	75.9	70.0	70.5	66.8	66.9	66.3	67.8	66.4	63.9	59.5	50.0	51.3	48.7
1600	71.1	73.3	72.5	73.1	71.6	72.0	73.2	67.2	67.8	64.0	64.1	63.4	65.0	63.7	61.2	56.9	47.3	48.7	46.0
2000	68.1	70.4	69.6	70.2	68.6	69.1	70.4	64.2	64.9	61.1	61.1	60.4	62.1	60.8	58.4	54.1	44.5	45.9	43.3
2500	65.0	67.4	66.5	67.1	65.5	66.2	67.4	61.2	61.8	58.0	58.0	57.2	59.0	57.8	55.4	51.1	41.4	43.0	40.4
3150	61.6	64.2	63.3	63.8	62.1	63.0	64.2	57.9	58.6	54.7	54.7	53.8	55.8	54.6	52.2	47.9	38.2	39.9	37.2
4000	58.0	60.7	59.7	60.3	58.5	59.5	60.7	54.3	55.1	51.1	51.2	50.2	52.3	51.1	48.7	44.4	34.7	36.5	33.8
5000	54.0	56.8	55.8	56.4	54.5	55.8	56.9	50.4	51.2	47.2	47.3	46.2	48.4	47.2	44.9	40.6	30.9	32.8	30.1
6300	49.7	52.6	51.5	52.1	50.2	51.6	52.7	46.2	47.0	42.9	43.0	41.9	44.2	43.0	40.7	36.4	26.7	28.7	26.0
8000	45.0	47.9	46.9	47.4	45.5	47.1	48.1	41.6	42.4	38.4	38.5	37.4	39.7	38.5	36.1	32.0	22.2	24.3	21.6
10000	39.9	42.7	41.7	42.1	40.3	42.0	42.8	36.5	37.2	33.4	33.4	32.5	34.7	33.4	31.1	26.9	17.2	19.3	16.6
12500	34.1	36.8	35.9	36.2	34.4	36.2	36.9	30.7	31.3	27.9	27.7	27.1	29.0	27.7	25.3	21.3	11.5	13.7	10.9
16000	27.7	30.1	29.4	29.5	27.9	29.6	30.1	24.3	24.7	21.8	21.3	21.2	22.7	21.2	18.9	15.0	5.3	7.3	4.7
20000	20.6	22.6	22.2	22.0	20.6	22.1	22.5	17.2	17.4	15.3	14.5	14.8	15.7	14.2	11.8	8.1		.3	
25000	12.9	14.3	14.4	13.9	12.8	13.9	14.0	9.7	9.5	8.4	7.3	8.1	8.2	6.8	4.4	.8			

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 01
AIRCRAFT CODE 525
OPERATION CODE 06013
PROFILE VERSION A
20 MAY 76
PAGE G1

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
IDLE, 60% RPM, C-135B
SINGLE ENGINE
EST. FROM B-52H
SINGLE ENG. +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -8.7 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	95.3	97.5	96.5	97.1	95.9	96.1	97.2	91.2	91.5	87.7	88.2	87.7	89.1	87.2	84.8	79.9	70.8	72.3	69.2
250	93.1	95.3	94.4	94.9	93.7	93.9	95.0	89.1	89.3	85.4	86.0	85.5	86.9	85.0	82.6	77.7	68.6	70.1	67.1
315	90.8	93.1	92.1	92.7	91.5	91.7	92.9	86.8	87.1	83.2	83.7	83.2	84.7	82.8	80.4	75.5	66.4	68.0	65.0
400	88.5	90.8	89.9	90.4	89.2	89.5	90.6	84.5	84.8	80.9	81.4	80.8	82.3	80.5	78.1	73.3	64.2	65.8	62.8
500	86.2	88.5	87.5	88.1	86.9	87.2	88.4	82.2	82.5	78.5	79.1	78.4	80.0	78.2	75.8	71.0	61.9	63.6	60.5
630	83.7	86.2	85.1	85.7	84.4	84.8	86.0	79.8	80.1	76.1	76.6	75.9	77.5	75.8	73.5	68.7	59.6	61.3	58.3
800	81.2	83.7	82.7	83.3	81.9	82.4	83.6	77.3	77.7	73.6	74.1	73.4	75.0	73.4	71.0	66.3	57.1	58.9	55.9
1000	78.6	81.2	80.1	80.7	79.3	79.9	81.1	74.7	75.1	71.0	71.5	70.7	72.4	70.8	68.5	63.8	54.6	56.5	53.5
1250	75.9	78.6	77.4	78.1	76.6	77.3	78.6	72.0	72.5	68.3	68.8	67.9	69.7	68.2	65.9	61.2	52.0	54.0	51.0
1600	73.0	75.8	74.7	75.3	73.8	74.6	75.9	69.2	69.7	65.5	66.0	65.0	66.9	65.5	63.2	58.5	49.3	51.3	48.4
2000	70.0	73.0	71.7	72.4	70.8	71.8	73.0	66.2	66.8	62.6	63.1	62.0	64.0	62.6	60.3	55.7	46.5	48.6	45.6
2500	66.9	69.9	68.7	69.4	67.7	68.8	70.0	63.2	63.8	59.5	60.0	58.8	60.9	59.6	57.3	52.8	43.4	45.7	42.7
3150	63.5	66.7	65.4	66.1	64.3	65.6	66.8	59.9	60.5	56.2	56.7	55.4	57.7	56.4	54.1	49.6	40.2	42.6	39.6
4000	59.5	62.7	61.4	62.1	60.2	61.7	62.8	55.9	56.6	52.3	52.7	51.5	53.8	52.5	50.3	45.8	36.3	38.7	35.7
5000	55.1	58.3	57.1	57.7	55.8	57.4	58.5	51.6	52.4	48.1	48.5	47.2	49.6	48.3	46.0	41.6	32.1	34.4	31.5
6300	50.4	53.6	52.3	53.0	51.1	52.7	53.8	47.0	47.8	43.5	43.8	42.5	45.0	43.8	41.5	37.1	27.5	29.8	26.9
8000	45.4	48.4	47.3	47.8	46.0	47.6	48.6	42.0	42.8	38.7	38.8	37.8	40.1	38.9	36.5	32.3	22.6	24.8	22.0
10000	39.9	42.7	41.7	42.1	40.3	42.0	42.8	36.5	37.2	33.4	33.4	32.5	34.7	33.4	31.1	26.9	17.2	19.3	16.6
12500	34.1	36.8	35.9	36.2	34.4	36.2	36.9	30.7	31.3	27.9	27.7	27.1	29.0	27.7	25.3	21.3	11.5	13.7	10.9
16000	27.7	30.1	29.4	29.5	27.9	29.6	30.1	24.3	24.7	21.8	21.3	21.2	22.7	21.2	18.9	15.0	5.3	7.3	4.7
20000	20.6	22.6	22.2	22.0	20.6	22.1	22.5	17.2	17.4	15.3	14.5	14.8	15.7	14.2	11.8	8.1		.3	
25000	12.9	14.3	14.4	13.9	12.8	13.9	14.0	9.7	9.5	8.4	7.3	8.1	8.2	6.8	4.4	.8			

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
IDLE, 60% RPM, C-135B
SINGLE ENGINE
EST. FROM B-52H
SINGLE ENG. +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -8.7 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 01
AIRCRAFT CODE 525
OPERATION CODE 06013
PROFILE VERSION A
20 MAY 76
PAGE J1

P=PNLT A=AL T=ALT

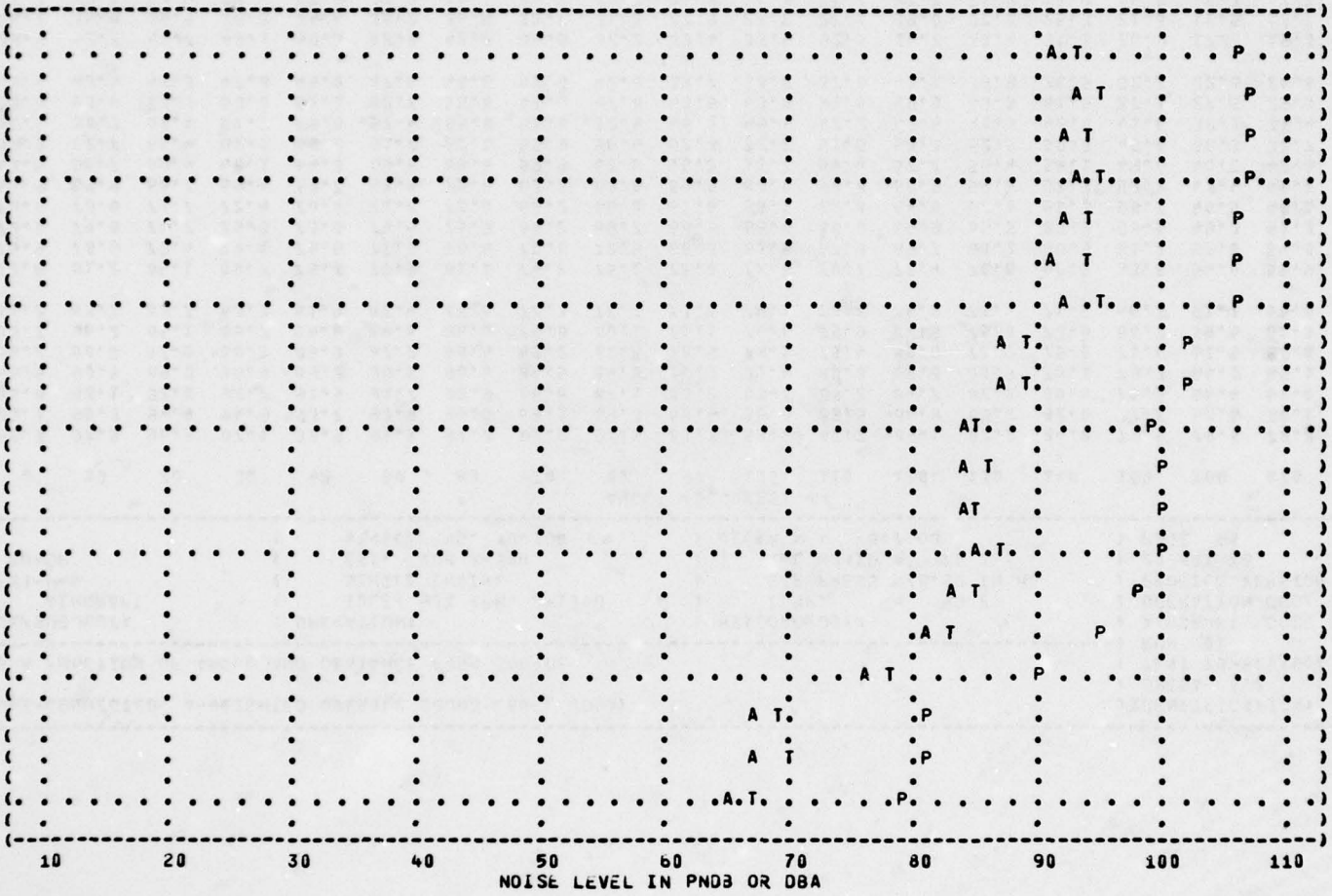


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 02
AIRCRAFT CODE 525
OPERATION CODE 01019
PROFILE VERSION A
20 MAY 76
PAGE C2

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE, C-135B
EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = .3 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	78	78	81	83	81	81	82	82	84	82	83	84	82	81	79	74	68	58	48
63	79	78	81	79	80	81	81	82	83	81	83	84	84	82	81	75	72	62	52
80	77	78	78	78	79	79	79	80	79	79	80	80	79	79	80	73	67	57	47
100	80	80	80	81	81	80	80	83	81	80	82	81	80	79	78	72	66	56	46
125	80	81	80	80	79	80	79	79	79	81	81	80	79	78	78	71	62	52	42
160	83	82	83	82	81	80	81	81	81	81	82	81	79	80	78	71	59	49	39
200	83	83	85	83	83	83	82	83	82	83	82	82	82	80	78	73	58	48	38
250	81	83	83	82	83	83	83	83	83	83	84	84	82	78	76	72	59<	49	39
315	81	81	83	82	81	82	82	81	81	81	81	81	80	79	75	70	59	49	39
400	83	83	84	84	83	83	83	83	83	82	80	80	78	77	73	70	55	45	35
500	83	83	84	84	83	83	81	81	81	80	79	79	79	76	73	68	56	46	36
630	84	85	86	86	84	84	81	82	79	80	79	79	79	77	73	70	57	47	37
800	84	84	84	84	85	84	83	83	80	79	79	79	79	77	73	70	59	49	39
1000	93	93	92	94	93	91	91	88	87	84	86	87	88	85	81	78	70	60	50
1250	93	95	93	95	93	92	92	89	87	85	86	88	88	86	81	75	67	57	47
1600	98	96	98	98	100	100	100	98	91	90	88	90	90	87	81	76	67	57	47
2000	96	97	98	97	100	101	98	94	90	88	87	87	87	86	80	75	66	56	46
2500	90	91	90	91	92	90	88	87	84	83	83	84	84	81	76	71	60	50	40
3150	94	93	94	95	94	93	93	91	89	87	88	88	88	85	78	75	63	53	43
4000	92	92	92	92	94	94	92	90	88	85	86	86	85	83	78	73	62	52	42
5000	90	91	90	91	92	91	91	88	86	85	85	85	85	83	78	71	58	48	38
6300	86	86	87	86	87	88	86	84	82	81	81	82	82	80	75	68	54	44	34
8000	85	85	85	84	86	86	85	82	79	78	79	79	79	77	73	66	52	42	32
10000	79	79	78	77	80	80	78	75	74	73	73	73	73	71	66	58	45	35	25
OVERALL	104	104	104	104	105	105	104	102	99	97	97	98	98	96	92	87	78	68	58

XXX< = EXTRAPOLATED OR INTERPOLATED SPL
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 02
AIRCRAFT CODE 525
OPERATION CODE 01019
PROFILE VERSION A
20 MAY 76
PAGE D2

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE, C-135B
EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = .3 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	119.2	118.6	119.3	119.3	120.5	120.7	119.1	117.1	114.1	112.9	113.0	113.5	113.1	110.6	105.5	100.8	89.8	79.5	69.1
250	116.9	116.4	117.0	117.0	118.3	118.5	116.9	114.8	111.9	110.6	110.8	111.2	110.8	108.4	103.2	98.5	87.5	77.2	66.7
315	114.6	114.1	114.7	114.7	116.0	116.2	114.6	112.6	109.5	108.2	108.4	108.8	108.5	106.0	100.9	96.2	85.2	74.9	64.3
400	112.3	111.7	112.4	112.2	113.6	113.9	112.3	110.2	107.1	105.8	106.0	106.4	106.0	103.6	98.4	93.8	82.8	72.4	61.8
500	109.8	109.3	109.9	109.7	111.2	111.4	109.8	107.8	104.5	103.2	103.4	103.8	103.5	101.0	95.9	91.2	80.4	69.9	59.2
630	107.3	106.7	107.4	107.0	108.6	108.9	107.3	105.3	101.8	100.6	100.7	101.2	100.8	98.3	93.2	88.5	77.8	67.3	56.4
800	104.6	104.0	104.7	104.3	105.9	106.2	104.6	102.7	99.0	97.7	97.9	98.3	97.9	95.4	90.3	85.7	75.1	64.5	53.5
1000	101.8	101.2	101.8	101.5	103.1	103.4	101.7	99.9	95.9	94.7	94.8	95.3	94.9	92.4	87.4	82.6	72.3	61.5	50.1
1250	98.7	98.1	98.8	98.5	100.1	100.3	98.8	96.9	92.8	91.6	91.5	92.0	91.6	89.3	84.3	79.4	69.2	58.4	46.2
1500	95.5	94.9	95.6	95.3	96.8	97.1	95.6	93.8	89.6	88.4	87.9	88.6	88.4	86.1	81.0	76.0	65.8	54.8	42.2
2000	92.0	91.4	92.1	91.9	93.3	93.6	92.3	90.4	86.2	85.0	84.3	85.1	85.0	82.5	77.5	72.5	62.2	50.9	37.5
2500	88.2	87.6	88.3	88.2	89.5	89.8	88.6	86.7	82.4	81.2	80.5	81.3	81.2	78.8	73.7	68.7	58.3	46.5	31.8
3150	84.0	83.3	84.2	84.2	85.3	85.6	84.0	82.7	78.3	77.1	76.3	77.2	77.1	74.7	69.4	64.4	53.7	41.6	26.4
4000	79.5	78.7	79.8	79.7	80.8	80.9	80.1	78.2	73.7	72.5	71.7	72.6	72.5	70.1	64.7	59.7	49.2	36.2	19.0
5000	74.6	73.8	74.8	74.8	75.9	75.8	75.2	73.3	68.7	67.4	66.6	67.6	67.5	65.0	59.6	54.5	43.9	30.1	8.8
6300	69.2	68.3	69.4	69.4	70.4	70.4	69.8	67.9	63.1	61.9	61.0	62.0	61.9	59.4	53.7	49.2	37.9	22.7	
8000	63.3	62.5	63.6	63.6	64.6	64.5	63.9	62.0	57.4	56.1	55.2	56.2	56.1	53.6	48.4	43.3	31.4	11.8	
10000	56.8	56.0	57.1	57.1	58.0	57.9	57.2	55.4	50.7	49.4	49.1	49.5	49.8	46.9	41.7	36.6	21.6	.8	
12500	49.4	49.5	49.5	50.1	50.3	50.2	49.3	47.6	43.0	40.9	41.9	42.3	42.5	39.3	34.1	28.6	10.3		
16000	41.0	41.3	40.6	41.7	41.6	39.8	39.3	37.0	34.8	33.5	33.5	34.0	34.0	30.7	23.5	13.4			
20000	30.8	30.7	31.9	32.0	31.1	30.1	28.0	26.7	24.6	22.9	22.1	22.1	21.3	15.6	12.9				
25000	17.5	17.4	18.7	20.0	17.3	16.4	12.4	13.6	11.4	10.3	6.7	6.7	8.7	.5	2.2				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 02
AIRCRAFT CODE 525
OPERATION CODE 01019
PROFILE VERSION A
20 MAY 76
PAGE E2

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE, C-135B
EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = .3 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	120.6	119.9	120.3	120.6	122.2	123.0	120.7	119.1	115.2	113.9	114.3	114.6	114.6	111.8	107.0	102.7	92.1	81.9	71.4
250	118.4	117.7	118.1	118.3	120.0	120.8	118.5	116.9	113.0	111.6	112.0	112.3	112.3	109.5	104.7	100.4	89.8	79.6	69.0
315	116.1	115.4	115.8	116.0	117.7	118.5	116.2	114.7	110.6	109.3	109.7	109.9	110.0	107.1	102.3	98.1	87.5	77.2	66.6
400	113.8	113.0	113.4	113.5	115.3	116.2	113.8	112.3	108.2	106.8	107.3	107.5	107.5	104.7	99.9	95.7	85.2	74.8	64.1
500	111.3	110.6	111.0	111.0	112.9	113.7	111.4	109.9	105.6	104.3	104.7	104.9	105.0	102.1	97.3	93.1	82.7	72.3	61.6
630	108.8	108.0	108.4	108.3	110.3	111.2	108.8	107.4	102.9	101.6	102.0	102.2	102.3	99.4	94.6	90.4	80.1	69.6	58.7
800	106.1	105.3	105.8	105.6	107.6	108.5	106.1	104.7	100.1	98.7	99.2	99.4	99.4	96.6	91.7	87.6	77.4	66.8	55.8
1000	103.2	102.5	102.9	102.8	104.8	105.7	103.3	102.0	97.0	95.7	96.1	96.3	96.4	93.5	88.8	84.5	74.6	63.8	52.4
1250	100.2	99.5	99.9	99.8	101.8	102.6	100.3	99.0	94.0	92.7	92.8	93.1	93.1	90.4	85.7	81.3	71.5	60.7	48.5
1600	97.0	96.2	96.6	96.6	98.5	99.4	97.2	95.9	90.7	89.5	89.2	89.7	89.9	87.2	82.4	77.9	68.1	57.2	44.6
2000	93.5	92.7	93.1	93.2	95.0	95.9	93.8	92.5	87.3	86.0	85.6	86.2	86.4	83.8	78.9	74.4	64.5	53.2	39.9
2500	89.7	88.9	89.3	89.5	91.2	92.1	90.1	88.8	83.6	82.3	81.8	82.4	82.7	80.0	75.1	70.6	60.6	48.8	34.2
3150	85.4	84.7	85.3	85.5	87.0	87.9	86.1	84.8	79.4	78.1	77.6	78.3	78.5	75.8	70.9	66.3	56.0	43.9	28.7
4000	80.7	79.7	80.6	80.8	82.2	82.7	81.4	79.9	74.6	73.3	72.7	73.5	73.7	71.0	65.8	61.2	51.1	38.1	20.8
5000	75.5	74.6	75.4	75.6	76.9	77.2	76.1	74.6	69.3	68.1	67.4	68.2	68.4	65.7	60.4	55.6	45.3	31.5	10.2
6300	69.7	68.9	69.8	69.9	71.1	71.3	70.4	68.7	63.6	62.3	61.6	62.4	62.5	59.8	54.3	50.0	38.9	23.6	
8000	63.6	62.8	63.8	63.8	65.0	65.0	64.2	62.4	57.6	56.3	55.5	56.4	56.4	53.8	48.7	43.7	31.8	12.2	
10000	56.8	56.0	57.1	57.1	58.0	57.9	57.2	55.4	50.7	49.4	49.1	49.5	49.8	46.9	41.7	36.6	21.6	.8	
12500	49.4	49.5	49.5	50.1	50.3	50.2	49.3	47.6	43.0	40.9	41.9	42.3	42.5	39.3	34.1	28.6	10.3		
16000	41.0	41.3	40.5	41.7	41.6	39.8	39.3	37.0	34.8	33.5	33.5	34.0	34.0	30.7	23.5	13.4			
20000	30.8	30.7	31.9	32.0	31.1	30.1	28.0	26.7	24.6	22.9	22.1	22.1	21.3	15.6	12.9				
25000	17.5	17.4	18.7	20.0	17.3	16.4	12.4	13.6	11.4	10.3	6.7	6.7	8.7	.5	2.2				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 02
AIRCRAFT CODE 525
OPERATION CODE 01019
PROFILE VERSION A
20 MAY 76
PAGE F2

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE, C-135B
EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = .3 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	106.9	106.4	106.9	107.0	108.2	108.3	107.2	104.7	100.7	99.3	99.0	99.7	99.6	97.3	92.0	87.3	77.9	67.9	57.9
250	104.7	104.1	104.7	104.8	106.0	106.1	105.0	102.5	98.5	97.0	96.8	97.5	97.4	95.1	89.8	85.1	75.8	65.8	55.8
315	102.4	101.9	102.4	102.5	103.8	103.9	102.8	100.2	96.3	94.8	94.5	95.2	95.1	92.8	87.5	82.8	73.6	63.6	53.6
400	100.1	99.6	100.1	100.2	101.5	101.5	100.5	97.9	93.9	92.4	92.2	92.9	92.8	90.5	85.2	80.6	71.3	61.3	51.3
500	97.8	97.2	97.8	97.9	99.1	99.2	98.1	95.6	91.5	90.0	89.7	90.5	90.4	88.1	82.8	78.2	69.1	59.1	49.1
630	95.3	94.8	95.3	95.5	96.7	96.8	95.7	93.1	89.0	87.5	87.3	88.0	87.9	85.7	80.4	75.8	66.7	56.7	46.7
800	92.8	92.3	92.8	92.9	94.2	94.2	93.2	90.6	86.5	85.0	84.7	85.5	85.4	83.1	77.9	73.3	64.3	54.3	44.3
1000	90.2	89.7	90.2	90.3	91.5	91.6	90.5	88.0	83.8	82.3	82.0	82.8	82.8	80.5	75.3	70.7	61.8	51.8	41.8
1250	87.4	86.9	87.4	87.6	88.8	88.8	87.8	85.2	81.0	79.5	79.2	80.0	80.0	77.7	72.5	68.0	59.2	49.2	39.2
1600	84.5	84.0	84.5	84.7	85.8	85.9	84.9	82.3	78.0	76.6	76.2	77.1	77.1	74.9	69.7	65.2	56.5	46.5	36.5
2000	81.4	81.0	81.4	81.7	82.7	82.7	81.7	79.2	75.0	73.5	73.2	74.0	74.1	71.8	66.7	62.3	53.6	43.6	33.6
2500	78.1	77.7	78.1	78.4	79.4	79.4	78.4	75.9	71.6	70.2	69.9	70.8	70.9	68.6	63.6	59.2	50.6	40.6	30.6
3150	74.6	74.2	74.5	74.9	75.8	75.7	74.8	72.3	68.1	66.6	66.4	67.3	67.4	65.1	60.2	55.8	47.3	37.3	27.3
4000	70.7	70.4	70.5	71.0	71.8	71.6	70.8	68.4	64.2	62.7	62.6	63.5	63.7	61.4	56.5	52.2	43.8	33.8	23.8
5000	66.4	66.2	66.2	66.8	67.4	67.1	66.4	64.0	60.0	58.4	58.4	59.4	59.6	57.3	52.5	48.2	39.9	29.9	19.9
6300	61.6	61.5	61.4	62.2	62.6	62.1	61.5	59.1	55.3	53.7	53.9	54.8	55.1	52.7	48.1	43.9	35.6	25.6	15.6
8000	56.5	56.5	56.2	57.1	57.3	56.5	56.0	53.8	50.4	48.7	49.1	50.0	50.2	47.9	43.4	39.3	30.9	20.9	10.9
10000	50.8	51.0	50.5	51.6	51.4	50.4	50.0	47.9	45.0	43.4	43.9	44.6	44.8	42.5	38.3	34.2	25.7	15.7	5.7
12500	44.6	44.8	44.3	45.4	45.0	43.9	43.3	41.5	39.1	37.7	38.1	38.7	38.9	36.6	32.6	28.6	19.9	9.9	
16000	37.8	38.1	37.7	38.7	38.1	38.9	38.2	34.8	32.9	31.7	32.0	32.3	32.5	30.1	26.4	22.5	13.3	3.3	
20000	30.5	30.8	30.7	31.5	30.7	29.8	28.8	27.9	26.4	25.5	25.4	25.6	25.5	23.2	19.8	15.8	6.0		
25000	22.9	23.1	23.5	24.0	23.0	22.5	21.3	20.9	19.8	19.1	18.8	18.8	18.4	16.2	13.2	8.9			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 02
AIRCRAFT CODE 525
OPERATION CODE 01019
PROFILE VERSION A
20 MAY 76
PAGE G2

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE, C-135B
EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = .3 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	108.3	107.7	107.9	108.3	109.9	110.6	108.7	105.7	101.9	100.3	100.3	100.8	101.1	98.4	93.4	89.2	80.2	70.2	60.2
250	106.1	105.5	105.7	106.1	107.7	108.4	106.5	104.6	99.6	98.1	98.1	98.6	98.8	96.2	91.2	87.0	78.1	68.1	58.1
315	103.9	103.2	103.5	103.8	105.5	106.1	104.3	102.3	97.4	95.8	95.8	96.3	96.6	93.9	88.9	84.7	75.9	65.9	55.9
400	101.6	100.9	101.2	101.5	103.2	103.9	102.0	100.0	95.0	93.5	93.4	94.0	94.3	91.6	86.6	82.5	73.7	63.7	53.7
500	99.2	98.6	98.8	99.2	100.8	101.5	99.7	97.7	92.6	91.1	91.0	91.6	91.9	89.2	84.2	80.1	71.4	61.4	51.4
630	96.8	96.1	96.4	96.8	98.4	99.1	97.2	95.2	90.2	88.6	88.5	89.1	89.4	86.8	81.8	77.7	69.1	59.1	49.1
800	94.3	93.6	93.9	94.2	95.9	96.5	94.7	92.7	87.6	86.0	86.0	86.5	86.9	84.2	79.3	75.2	66.6	56.6	46.6
1000	91.7	91.0	91.2	91.6	93.2	93.9	92.1	90.1	84.9	83.4	83.3	83.9	84.2	81.6	76.7	72.6	64.1	54.1	44.1
1250	88.9	88.2	88.4	88.9	90.4	91.1	89.3	87.3	82.1	80.6	80.5	81.1	81.5	78.9	74.0	69.9	61.5	51.5	41.5
1600	86.0	85.3	85.5	86.0	87.5	88.2	86.4	84.4	79.2	77.6	77.5	78.2	78.6	76.0	71.1	67.1	58.8	48.8	38.8
2000	82.9	82.3	82.4	83.0	84.4	85.0	83.3	81.3	76.1	74.5	74.4	75.1	75.5	72.9	68.2	64.2	55.9	45.9	35.9
2500	79.6	79.0	79.1	79.7	81.1	81.6	80.0	78.0	72.8	71.2	71.2	71.9	72.3	69.7	65.0	61.1	52.9	42.9	32.9
3150	76.0	75.5	75.5	76.2	77.5	78.0	76.3	74.4	69.2	67.6	67.7	68.4	68.9	66.3	61.6	57.7	49.6	39.6	29.6
4000	71.8	71.4	71.4	72.1	73.2	73.4	72.0	70.0	65.1	63.5	63.6	64.4	64.8	62.3	57.7	53.7	45.6	35.6	25.6
5000	67.3	66.9	66.8	67.6	68.4	68.5	67.3	65.2	60.7	59.0	59.2	60.0	60.4	57.9	53.4	49.4	41.3	31.3	21.3
6300	62.2	62.1	61.8	62.7	63.3	63.0	62.1	59.9	55.8	54.1	54.4	55.3	55.6	53.2	48.7	44.7	36.5	26.5	16.5
8000	56.8	56.8	56.4	57.4	57.6	57.0	56.3	54.2	50.6	49.0	49.4	50.2	50.5	48.1	43.7	39.7	31.4	21.4	11.4
10000	50.8	51.0	50.5	51.6	51.4	50.4	50.0	47.9	45.0	43.4	43.9	44.6	44.8	42.5	38.3	34.2	25.7	15.7	5.7
12500	44.6	44.8	44.3	45.4	45.0	43.9	43.3	41.5	39.1	37.7	38.1	38.7	38.9	36.6	32.6	28.6	19.9	9.9	
16000	37.8	38.1	37.7	38.7	38.1	36.9	36.2	34.8	32.9	31.7	32.0	32.3	32.5	30.1	26.4	22.5	13.3	3.3	
20000	30.5	30.8	30.7	31.5	30.7	29.8	28.8	27.9	26.4	25.5	25.4	25.6	25.5	23.2	19.8	15.8	6.0		
25000	22.9	23.1	23.5	24.0	23.0	22.5	21.3	20.9	19.8	19.1	18.8	18.8	18.4	16.2	13.2	8.9			

> SP. DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

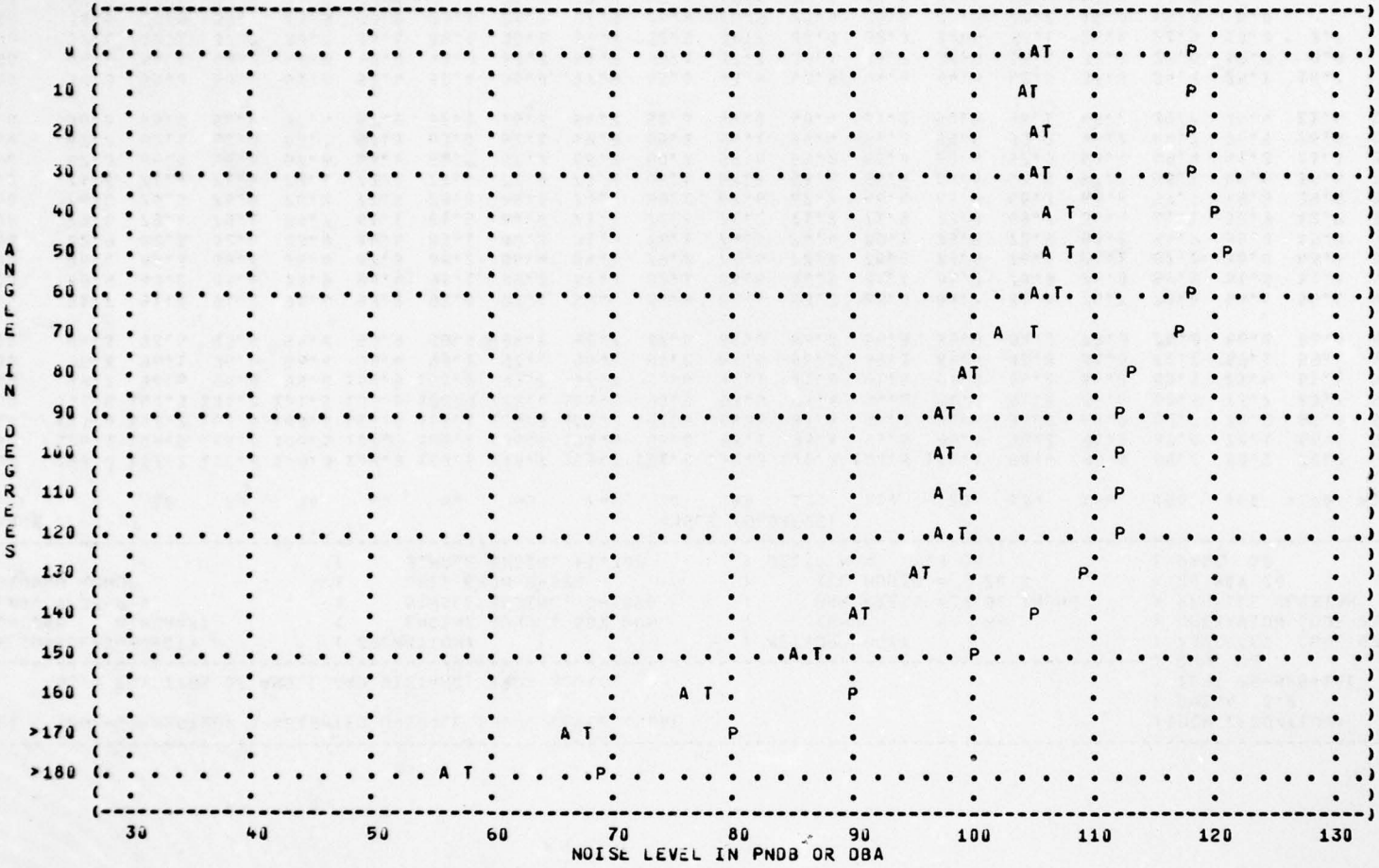
NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 80% RPM
SINGLE ENGINE, C-135B
EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = .3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 02
AIRCRAFT CODE 525
OPERATION CODE 01019
PROFILE VERSION A
20 MAY 76
PAGE J2

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

AD-A053 700 AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB OHIO F/G 1/2
COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS, VO--ETC(U)
NOV 77 J D SPEAKMAN, R G POWELL, R A LEE
UNCLASSIFIED AMRL-TR-73-110-VOL-2 NL

7 OF 8
AD
A053700

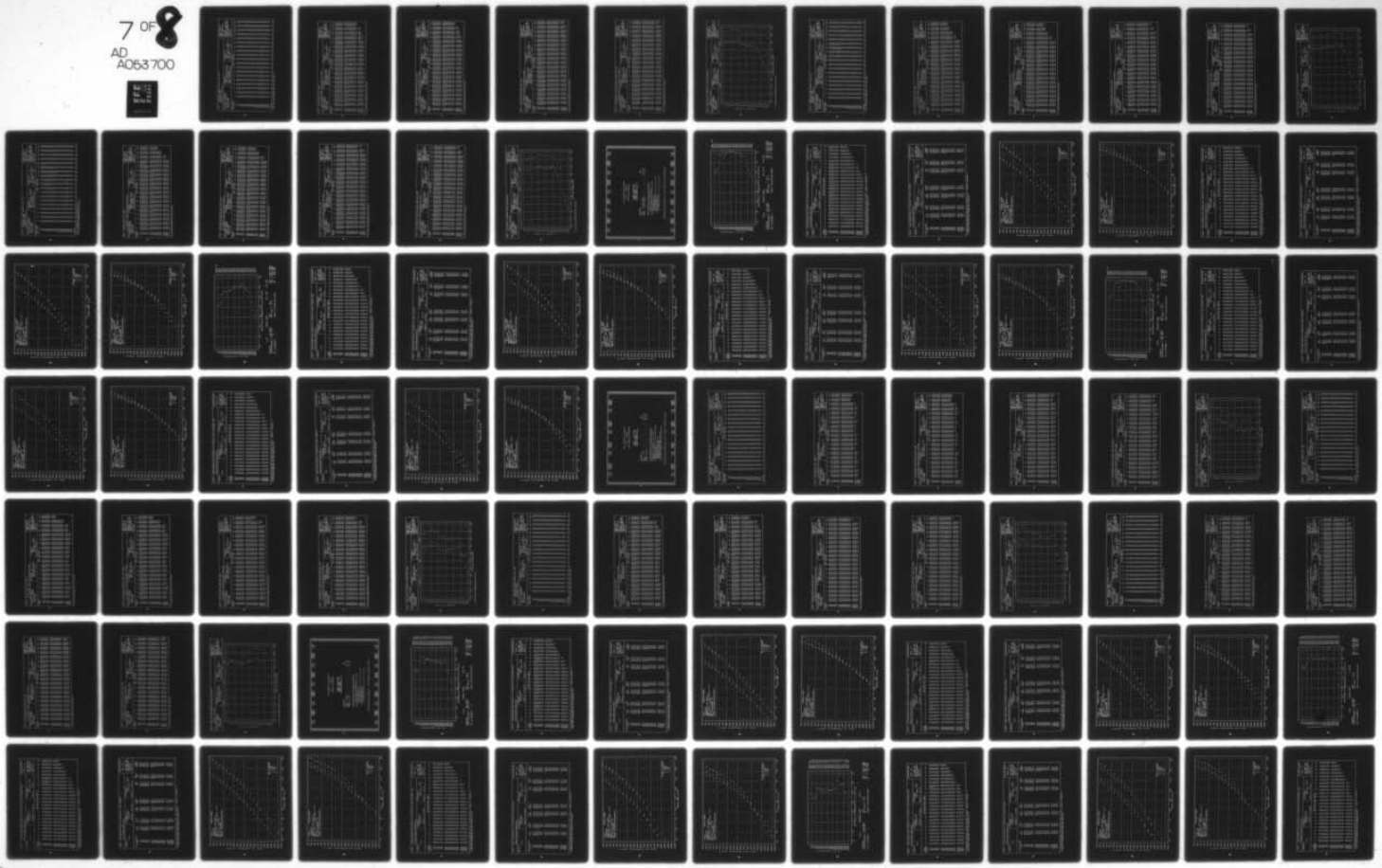


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 03
AIRCRAFT CODE 525
OPERATION CODE 01016
PROFILE VERSION A
20 MAY 76
PAGE C3

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 95% RPM
SINGLE ENGINE, C-135B
EST. FROM B-524
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = .3 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
50	83	82	85	86	86	86	86	86	89	89	89	92	92	96	95	88	81	74	68
63	85	83	86	85	86	88	88	88	90	90	91	92	96	98	99	86	79	72	66
80	85	85	86	86	90	90	89	89	91	92	94	93	96	98	97	83	77	70	63
100	86	87	87	88	88	89	89	91	92	92	97	94	96	96	97	84	78	71	64
125	88	88	88	88	88	89	90	89	92	92	95	93	96	96	94	86	80	73	66
160	89	89	89	89	88	89	89	91	92	92	93	94	94	94	89	81	75	68	61
200	92	92	91	91	91	93	92	93	92	94	95	95	95	95	87	80	73	66	60
250	89	91	92	93	91	92	93	93	93	92	94	94	93	92	85	80	73	66	60
315	90	93	92	93	94	93	91	92	92	92	92	92	95	90	84	77	70	64	57
400	92	95	95	95	96	94	94	93	93	93	92	91	93	88	82	75	69	62	55
500	90	94	94	92	93	92	92	92	92	90	91	89	91	86	80	75	69	62	55
630	89	92	91	92	92	92	91	91	89	89	89	88	89	86	79	74	67	61	54
800	90	92	92	91	91	91	91	89	88	87	87	88	87	83	78	72	66	59	52
1000	96	97	96	96	96	92	92	90	90	88	89	89	89	85	81	77	71	64	57
1250	97	97	96	98	97	94	94	91	90	89	89	90	89	87	81	75	69	62	55
1600	89	92	94	94	94	93	93	90	89	86	87	86	87	82	76	71	64	57	51
2000	94	97	98	98	98	97	96	94	92	90	91	89	89	85	78	73	66	59	53
2500	102	103	104	105	103	103	104	100	99	98	98	98	98	93	85	79	72	65	59
3150	101	103	104	105	104	105	105	102	101	99	99	100	101	97	90	83	76	69	63
4000	92	96	97	97	97	97	97	95	94	90	91	90	90	87	82	74	67	60	54
5000	93	97	96	98	99	98	99	97	95	94	94	92	92	88	82	74	67	61	54
6300	91	96	95	96	97	97	97	95	95	92	94	92	92	90	85	75	69	62	55
8000	86	92	92	94	96	94	95	93	92	90	91	89	90	87	81	71	64	58	51
10000	84	87	87	88	90	89	89	88	88	85	85	83	84	81	77	67	60	54	47
OVERALL	108	109	110	111	110	110	110	108	107	106	107	107	108	107	105	94	88	81	74

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 95% RPM
SINGLE ENGINE, C-135B
EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = .3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 03
AIRCRAFT CODE 525
OPERATION CODE 01016
PROFILE VERSION A
20 MAY 76
PAGE D3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	124.3	126.2	126.7	127.7	127.4	127.3	127.5	125.1	124.3	122.9	123.2	123.0	123.8	120.9	115.0	107.2	100.4	93.6	86.7
250	122.0	123.9	124.4	125.4	125.1	125.0	125.2	122.8	122.0	120.6	120.9	120.8	121.5	118.5	112.7	104.9	98.1	91.3	84.4
315	119.7	121.6	122.1	123.0	122.8	122.7	122.8	120.4	119.7	118.3	118.6	118.4	119.2	116.3	110.4	102.6	95.8	88.9	82.0
400	117.2	119.1	119.6	120.6	120.3	120.2	120.4	118.0	117.2	115.8	116.1	116.0	116.8	113.9	108.0	100.2	93.3	86.4	79.6
500	114.7	116.6	117.1	118.0	117.7	117.6	117.8	115.4	114.6	113.3	113.6	113.4	114.2	111.4	105.5	97.6	90.7	83.8	76.9
630	112.0	113.9	114.4	115.3	115.0	114.9	115.1	112.7	111.9	110.6	110.9	110.8	111.6	108.7	102.9	94.9	88.0	81.1	74.2
800	109.2	111.0	111.5	112.5	112.2	112.0	112.2	109.8	109.1	107.7	108.0	107.9	108.7	105.9	100.1	92.0	85.1	78.2	71.3
1000	106.3	108.0	108.6	109.4	109.1	109.0	109.1	106.7	106.0	104.7	105.0	104.9	105.7	102.9	97.0	89.0	82.0	75.2	68.2
1250	103.1	104.7	105.4	106.2	105.7	105.6	105.7	103.4	102.6	101.3	101.6	101.5	102.4	99.5	93.7	85.6	78.7	71.8	64.7
1600	99.8	101.3	102.0	102.7	102.1	101.9	102.2	99.7	99.0	97.7	98.0	97.9	98.7	95.9	90.0	82.0	75.1	68.1	60.8
2000	96.1	97.6	98.3	99.0	98.1	97.9	98.4	95.7	95.0	93.7	94.1	93.9	94.7	91.8	85.9	78.0	71.1	64.0	56.5
2500	92.0	93.5	94.2	94.9	94.0	93.5	94.2	91.5	90.8	89.5	90.0	89.6	90.2	87.3	81.3	73.6	66.5	59.3	51.4
3150	87.4	89.0	89.7	90.3	89.4	88.9	89.6	86.9	86.1	84.8	85.3	84.9	85.3	82.2	76.2	68.5	61.3	53.6	45.2
4000	82.3	83.9	84.5	85.1	84.2	83.7	84.4	81.6	80.9	79.6	80.1	79.7	80.1	76.5	70.5	62.8	55.5	47.1	38.1
5000	76.6	78.1	78.7	79.3	78.5	77.9	78.5	75.8	75.1	73.8	74.2	73.9	74.3	70.6	64.4	57.0	48.9	40.2	30.5
6300	70.3	71.7	72.3	72.9	72.0	71.4	72.0	69.3	68.6	67.3	67.8	67.4	67.8	64.1	58.1	51.2	42.7	33.5	20.2
8000	65.0	66.5	66.4	67.0	66.5	64.9	65.2	63.6	63.0	61.9	62.4	61.9	62.7	59.1	53.0	45.7	36.3	24.2	9.9
10000	59.5	61.1	60.9	61.1	60.8	59.8	59.6	58.8	58.2	57.1	57.6	56.7	58.1	54.2	47.6	39.1	27.9	13.3	
12500	53.3	55.4	55.3	54.8	54.9	54.3	54.1	53.5	52.9	51.8	52.4	51.4	52.9	48.6	41.7	32.1	19.7	2.3	
16000	46.1	49.5	49.5	48.8	48.9	48.3	48.2	47.6	47.0	45.8	46.4	45.2	47.1	42.5	35.7	23.2	6.9		
20000	39.0	42.7	42.4	41.6	41.9	41.2	40.9	40.8	40.4	39.0	39.8	38.5	40.4	35.7	26.2	9.8			
25000	30.6	35.0	34.4	33.8	34.3	33.2	32.8	32.9	32.0	31.3	32.4	30.3	32.8	26.3	12.1				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 95% RPM
SINGLE ENGINE, C-135B
EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = .3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 03
AIRCRAFT CODE 525
OPERATION CODE 01016
PROFILE VERSION A
20 MAY 76
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	126.0	127.4	127.8	129.0	129.0	128.9	129.4	126.4	125.7	124.6	124.7	125.3	126.3	123.4	117.3	109.4	102.6	95.7	88.9
250	123.7	125.1	125.6	126.7	126.7	126.7	127.1	124.1	123.4	122.4	122.5	123.0	124.1	121.2	115.0	107.1	100.3	93.4	86.6
315	121.3	122.8	123.2	124.3	124.3	124.3	124.8	121.7	121.0	120.0	120.1	120.7	121.7	118.8	112.7	104.8	97.9	91.1	84.2
400	118.9	120.3	120.8	121.9	121.8	121.8	122.3	119.3	118.6	117.6	117.7	118.3	119.3	116.4	110.3	102.3	95.5	88.6	81.7
500	116.4	117.8	118.2	119.3	119.3	119.3	119.7	116.7	116.0	115.0	115.1	115.7	116.8	113.9	107.8	99.8	92.9	86.8	79.1
630	113.7	115.1	115.5	116.6	116.6	116.6	117.0	114.0	113.3	112.3	112.4	113.0	114.1	111.2	105.1	97.1	90.2	83.3	76.4
800	110.9	112.2	112.7	113.8	113.7	113.7	114.1	111.1	110.4	109.5	109.6	110.2	111.3	108.4	102.3	94.2	87.3	80.4	73.5
1000	108.0	109.2	109.7	110.7	110.6	110.6	111.0	108.0	107.4	106.4	106.5	107.1	108.3	105.4	99.3	91.1	84.2	77.3	70.3
1250	104.8	106.0	106.6	107.5	107.3	107.2	107.7	104.7	104.0	103.1	103.2	103.8	104.9	102.1	95.9	87.8	80.9	74.0	66.9
1500	101.4	102.6	103.1	104.1	103.6	103.6	104.1	101.0	100.3	99.4	99.5	100.2	101.3	98.4	92.2	84.2	77.3	70.2	63.0
2000	97.7	98.9	99.4	100.3	99.7	99.6	100.3	97.0	96.4	95.4	95.7	96.1	97.3	94.3	88.2	80.2	73.2	66.1	58.6
2500	93.7	94.8	95.3	96.2	95.5	95.2	96.1	92.8	92.2	91.2	91.5	91.8	92.8	89.8	83.6	75.7	68.7	61.4	53.6
3150	89.1	90.2	90.8	91.6	90.9	90.5	91.5	88.2	87.5	86.6	86.8	87.2	87.9	84.8	78.5	70.7	63.4	55.8	47.4
4000	83.7	84.8	85.4	86.2	85.5	85.0	85.9	82.7	82.0	81.0	81.3	81.5	82.1	78.5	72.3	64.5	57.2	48.9	39.8
5000	77.6	78.9	79.4	80.1	79.4	78.8	79.7	76.6	75.9	74.8	75.2	75.2	75.8	72.1	65.7	58.3	50.2	41.5	31.8
6300	70.9	72.2	72.8	73.4	72.6	72.0	72.7	69.8	69.1	68.0	68.4	68.3	68.9	65.1	59.0	52.1	43.6	34.4	21.1
8000	65.3	66.8	66.7	67.2	66.8	65.2	65.6	63.9	63.3	62.2	62.7	62.0	63.2	59.6	53.5	46.1	36.7	24.6	10.4
10000	59.5	61.1	60.9	61.1	60.8	59.8	59.6	58.8	58.2	57.1	57.6	56.7	58.1	54.2	47.6	39.1	27.9	13.3	
12500	53.3	55.4	55.3	54.8	54.9	54.3	54.1	53.5	52.9	51.8	52.4	51.4	52.9	48.6	41.7	32.1	19.7	2.3	
16000	46.1	49.5	49.5	48.8	48.9	48.3	48.2	47.6	47.0	45.8	46.4	45.2	47.1	42.5	35.7	23.2	6.9		
20000	39.0	42.7	42.4	41.6	41.9	41.2	40.9	40.8	40.4	39.0	39.8	38.5	40.4	35.7	26.2	9.8			
25000	30.6	35.0	34.4	33.8	34.3	33.2	32.8	32.9	32.0	31.3	32.4	30.3	32.8	26.3	12.1				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 95% RPM
SINGLE ENGINE, C-135B
EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = .3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 03
AIRCRAFT CODE 525
OPERATION CODE 01016
PROFILE VERSION A
20 MAY 76
PAGE F3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	110.1	111.8	112.4	113.4	112.8	112.4	112.9	110.0	109.1	107.4	107.7	107.4	107.8	104.3	97.9	90.6	84.0	77.3	70.6
250	107.8	109.5	110.2	111.1	110.5	110.1	110.6	107.7	106.8	105.1	105.4	105.1	105.6	102.0	95.6	88.4	81.7	75.0	68.4
315	105.6	107.2	107.9	108.8	108.2	107.8	108.3	105.4	104.4	102.8	103.0	102.8	103.2	99.7	93.3	86.1	79.4	72.8	66.1
400	103.2	104.8	105.5	106.4	105.7	105.3	105.8	102.9	102.0	100.4	100.6	100.4	100.8	97.3	90.8	83.7	77.1	70.4	63.7
500	100.8	102.4	103.0	103.9	103.2	102.8	103.3	100.4	99.4	97.8	98.1	97.9	98.3	94.8	88.3	81.3	74.6	67.9	61.3
630	98.2	99.8	100.4	101.3	100.6	100.2	100.6	97.7	96.8	95.2	95.4	95.2	95.7	92.1	85.7	78.7	72.1	65.4	58.7
800	95.6	97.1	97.8	98.6	97.9	97.4	97.9	94.9	94.0	92.5	92.7	92.5	93.0	89.4	83.0	76.1	69.4	62.8	56.1
1000	92.8	94.3	94.9	95.7	95.0	94.4	94.9	92.0	91.1	89.6	89.8	89.6	90.1	86.5	80.1	73.3	66.7	60.0	53.3
1250	89.9	91.4	91.9	92.7	92.0	91.3	91.8	88.9	88.0	86.5	86.7	86.6	87.0	83.4	77.0	70.4	63.7	57.1	50.4
1500	86.8	88.2	88.8	89.5	88.8	88.0	88.5	85.6	84.7	83.3	83.5	83.3	83.8	80.1	73.8	67.3	60.7	54.0	47.3
2000	83.5	84.9	85.4	86.1	85.4	84.5	84.9	82.1	81.3	79.9	80.1	79.9	80.3	76.6	70.4	64.1	57.5	50.8	44.1
2500	79.9	81.4	81.8	82.4	81.7	80.7	81.0	78.4	77.5	76.2	76.4	76.2	76.6	72.9	66.7	60.7	54.1	47.4	40.7
3150	76.2	77.6	77.9	78.4	77.8	76.6	76.9	74.4	73.5	72.2	72.4	72.2	72.5	68.8	62.8	57.1	50.4	43.7	37.1
4000	72.2	73.6	73.7	74.1	73.7	72.2	72.4	70.1	69.2	67.9	68.1	67.9	68.2	64.5	58.6	53.2	46.5	39.9	33.2
5000	67.9	69.2	69.2	69.6	69.2	67.5	67.6	65.4	64.6	63.3	63.5	63.4	63.5	60.0	54.2	49.0	42.3	35.7	29.0
6300	63.3	64.6	64.4	64.7	64.4	62.6	62.6	60.6	59.8	58.5	58.7	58.6	58.7	55.2	49.7	44.6	37.9	31.2	24.6
8000	58.6	60.1	59.8	59.9	59.7	57.9	57.9	56.1	55.3	54.2	54.4	54.2	54.4	50.9	45.5	40.4	33.7	27.8	20.4
10000	53.6	55.2	54.8	54.8	54.7	53.1	53.0	51.6	50.8	49.7	49.9	49.6	50.0	46.5	41.1	35.8	29.1	22.5	15.8
12500	48.1	50.0	49.5	49.4	49.4	48.1	47.9	46.8	46.0	45.1	45.1	44.7	45.4	41.8	36.6	30.9	24.3	17.6	10.9
16000	42.1	44.3	43.8	43.7	43.8	42.7	42.4	41.6	40.8	40.1	40.1	39.5	40.5	36.9	32.1	25.8	19.1	12.5	5.8
20000	35.7	38.3	37.8	37.5	37.8	37.0	36.6	36.1	35.4	34.7	34.8	34.1	35.3	32.0	27.7	20.5	13.8	7.2	.5
25000	29.0	31.8	31.4	31.1	31.4	30.8	30.4	30.1	29.6	29.0	29.2	28.4	29.9	27.0	23.6	15.3	8.6	1.9	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 03
AIRCRAFT CODE 525
OPERATION CODE 01015
PROFILE VERSION A
20 MAY 76
PAGE G3

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 95% RPM
SINGLE ENGINE, C-135B
EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = .3 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	111.8	113.0	113.6	114.7	114.3	114.1	114.8	111.3	110.5	109.2	109.2	109.6	110.4	106.9	100.2	92.8	86.1	79.5	72.8
250	109.5	110.8	111.3	112.4	112.0	111.8	112.5	109.0	108.2	106.9	106.9	107.4	108.1	104.6	97.9	90.5	83.9	77.2	70.5
315	107.2	108.5	109.0	110.1	109.7	109.4	110.2	106.7	105.8	104.5	104.6	105.0	105.8	102.2	95.5	88.3	81.6	74.9	68.3
400	104.9	106.1	106.6	107.7	107.3	107.0	107.7	104.2	103.4	102.1	102.1	102.6	103.4	99.8	93.1	85.9	79.2	72.6	65.9
500	102.4	103.6	104.1	105.2	104.8	104.4	105.2	101.7	100.8	99.6	99.6	100.1	100.9	97.3	90.6	83.4	76.8	70.1	63.4
630	99.9	101.0	101.6	102.6	102.2	101.8	102.6	99.0	98.2	97.0	97.0	97.5	98.3	94.7	88.0	80.9	74.2	67.6	60.9
800	97.3	98.4	98.9	99.9	99.4	99.0	99.8	96.2	95.4	94.2	94.2	94.8	95.5	91.3	85.2	78.3	71.6	64.9	58.3
1000	94.	95.5	96.0	97.1	96.6	96.1	96.8	93.3	92.5	91.4	91.3	91.9	92.7	89.0	82.3	75.5	68.8	62.2	55.5
1250	91.6	92.6	93.0	94.0	93.5	93.0	93.7	90.2	89.4	88.3	88.3	88.8	89.6	85.9	79.3	72.6	65.9	59.2	52.6
1600	88.5	89.5	89.9	90.8	90.3	89.6	90.4	86.9	86.1	85.1	85.0	85.6	86.3	82.6	76.0	69.5	62.8	56.2	49.5
2000	85.2	86.2	86.5	87.4	86.9	86.1	86.8	83.4	82.6	81.7	81.6	82.1	82.9	79.2	72.6	66.3	59.6	53.0	46.3
2500	81.6	82.6	82.9	83.7	83.3	82.3	83.0	79.7	78.9	78.0	77.9	78.4	79.1	75.4	69.0	62.9	56.2	49.6	42.9
3150	77.9	78.9	79.0	79.7	79.4	78.2	78.8	75.7	74.9	74.0	73.9	74.5	75.1	71.4	65.1	59.2	52.6	45.9	39.2
4000	73.5	74.6	74.6	75.2	74.9	73.5	74.0	71.1	70.3	69.3	69.4	69.8	70.2	66.6	60.4	54.9	48.3	41.6	34.9
5000	68.9	70.0	69.9	70.4	70.1	68.5	68.8	66.2	65.4	64.3	64.4	64.8	65.0	61.5	55.6	50.3	43.6	37.0	30.3
6300	63.9	65.1	64.9	65.3	65.0	63.2	63.4	61.1	60.3	59.2	59.3	59.5	59.7	56.3	50.6	45.4	38.8	32.1	25.4
8000	58.9	60.3	60.0	60.2	60.0	58.3	58.2	55.4	55.6	54.5	54.7	54.7	54.9	51.5	45.9	40.8	34.1	27.5	20.8
10000	53.6	55.2	54.8	54.8	54.7	53.1	53.0	51.6	50.8	49.7	49.9	49.6	50.0	46.5	41.1	35.8	29.1	22.5	15.8
12500	48.1	50.0	49.5	49.4	49.4	48.1	47.9	46.8	46.0	45.1	45.1	44.7	45.4	41.8	36.6	30.9	24.3	17.6	10.9
16000	42.1	44.3	43.8	43.7	43.8	42.7	42.4	41.6	40.8	40.1	40.1	39.5	40.5	36.9	32.1	25.8	19.1	12.5	5.8
20000	35.7	38.3	37.8	37.5	37.8	37.0	36.6	36.1	35.4	34.7	34.8	34.1	35.3	32.0	27.7	20.5	13.8	7.2	.5
25000	29.0	31.8	31.4	31.1	31.4	30.8	30.4	30.1	29.6	29.0	29.2	28.4	29.9	27.0	23.6	15.3	8.6	1.9	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

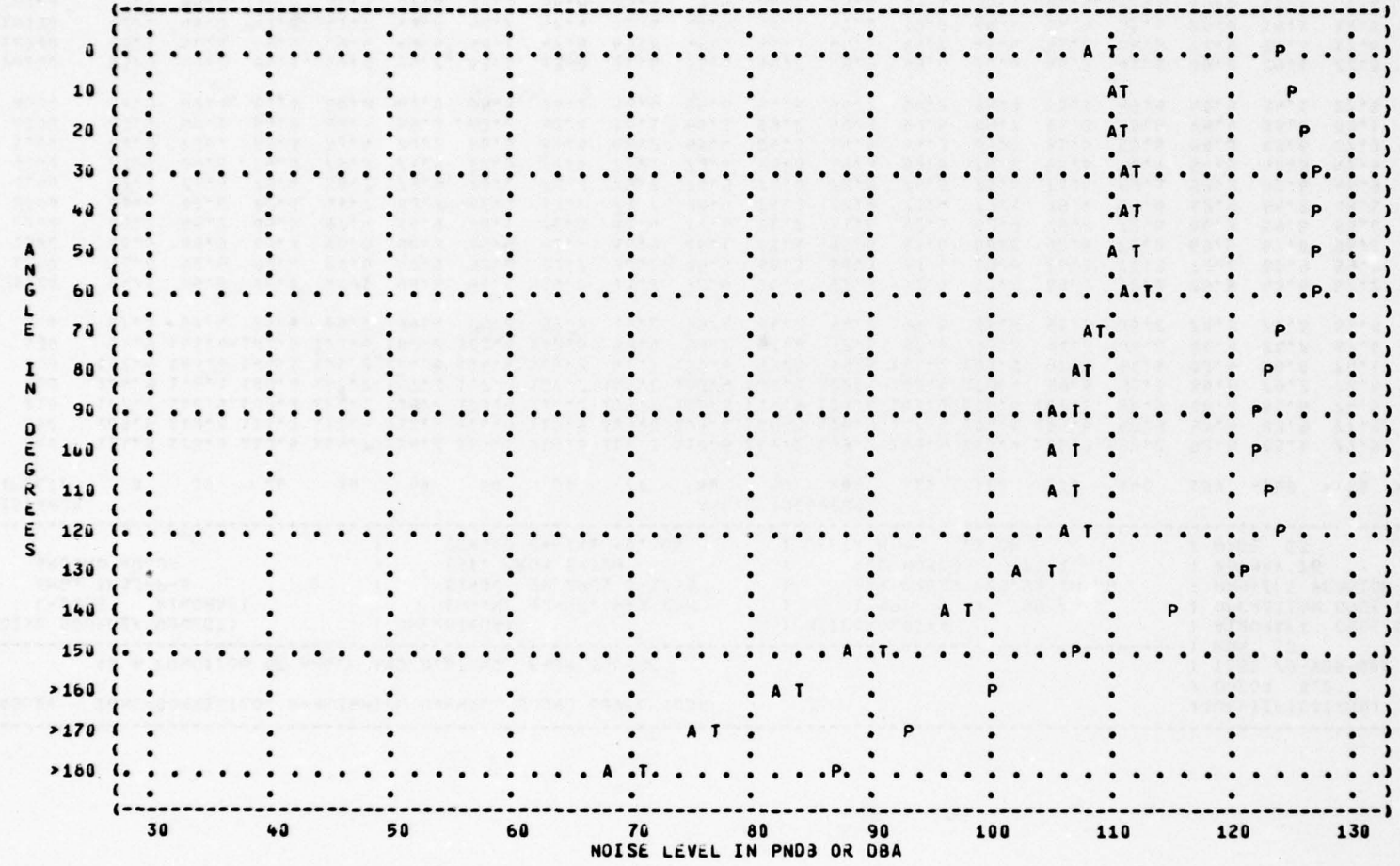
NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 95% RPM
SINGLE ENGINE, C-135B
EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = .3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 03
AIRCRAFT CODE 525
OPERATION CODE 01015
PROFILE VERSION A
20 MAY 76
PAGE J3

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 04
AIRCRAFT CODE 525
OPERATION CODE 06034
PROFILE VERSION A
20 MAY 76
PAGE C4

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
NORMAL RATED THRUST
SINGLE ENGINE, 100% RPM
C-135B EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -8.7 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
50	84	84	85	87	87	88	88	90	90	92	92	92	97	97	94	84	78	71	64
63	88	87	87	89	89	90	91	91	93	95	94	96	99	103	95	85	79	72	65
80	90	90	90	90	92	91	93	93	95	95	95	98	101	103	95	81	75	68	61
100	92	91	91	93	93	93	93	96	97	96	98	99	103	105	95	78	72	65	58
125	93	93	92	92	93	95	94	95	96	96	98	98	105	105	94	76	70	63	56
160	95	93	94	95	94	96	94	94	95	97	98	98	103	103	92	74	68	61	54
200	96	95	96	95	96	94	96	96	97	99	100	99	102	103	89	71	65	58	51
250	94	95	95	95	94	95	95	96	95	97	98	100	101	101	88	67	61	54	47
315	94	95	94	96	95	95	96	96	96	97	98	99	100	97	85	62	56	49	42
400	95	96	96	96	96	96	96	96	97	97	98	98	99	96	82	62	56	49	42
500	95	95	94	94	94	95	94	95	95	95	97	97	97	93	80	61	55	48	41
630	95	94	95	94	94	95	95	95	94	95	95	96	95	91	78	62	56	49	42
800	93	93	93	93	92	92	93	93	93	94	93	94	94	90	75	61	55	48	41
1000	92	92	92	91	92	92	93	93	92	93	94	93	92	89	74	60	54	47	40
1250	91	92	91	91	93	93	93	93	92	92	92	92	91	88	72	60	54	47	40
1600	91	92	93	91	93	93	92	92	92	92	92	91	89	86	71	58	52	45	38
2000	93	93	93	94	94	94	93	93	92	93	93	91	88	85	69	57	51	44	37
2500	93	93	94	93	95	95	94	95	95	95	95	92	89	85	70	57	51	44	37
3150	98	98	98	97	98	99	100	100	101	103	105	102	99	92	77	63	57	50	43
4000	94	95	94	94	94	96	96	98	97	98	99	97	95	90	76	61	55	48	41
5000	92	92	91	92	93	93	94	94	95	95	95	93	90	85	71	57	51	44	37
6300	90	90	91	92	92	93	95	95	96	97	98	97	92	87	71	56	50	43	36
8000	87	87	89	89	89	91	92	93	93	95	95	95	92	86	72	56	50	43	36
10000	83	83	83	83	84	86	87	88	90	92	93	92	88	81	67	50	44	37	30
OVERALL	107	107	107	107	107	108	108	109	109	110	111	111	113	113	103	90	83	76	70

> SPL DATA HERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
NORMAL RATED THRUST
SINGLE ENGINE, 100% RPM
C-135B EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -8.7 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 04
AIRCRAFT CODE 525
OPERATION CODE 06034
PROFILE VERSION A
20 MAY 76
PAGE D4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	122.5	122.6	122.8	122.6	123.1	123.8	124.7	124.9	125.2	126.5	128.1	126.5	124.9	120.5	107.1	92.2	85.1	78.0	70.9
250	120.3	120.4	120.5	120.4	120.8	121.5	122.4	122.6	122.9	124.3	125.8	124.2	122.6	118.4	105.0	89.9	82.8	75.7	68.6
315	118.0	118.0	118.2	118.0	118.5	119.2	120.1	120.3	120.6	121.9	123.5	121.9	120.3	116.1	102.8	87.5	80.4	73.3	66.2
400	115.6	115.6	115.8	115.6	116.1	116.8	117.6	117.8	118.1	119.5	121.0	119.4	118.0	113.8	100.6	85.0	77.9	70.8	63.6
500	113.0	113.1	113.2	113.1	113.6	114.3	115.1	115.3	115.6	116.9	118.5	116.9	115.5	111.3	98.3	82.4	75.3	68.2	60.8
630	110.4	110.4	110.6	110.4	110.9	111.6	112.4	112.6	112.9	114.2	115.8	114.2	112.8	108.7	95.9	79.7	72.6	65.5	57.8
800	107.6	107.6	107.8	107.6	108.1	108.7	109.6	109.7	110.1	111.4	112.9	111.4	110.0	106.0	93.3	76.9	69.7	62.5	54.5
1000	104.6	104.6	104.8	104.6	105.1	105.7	106.5	106.7	107.0	108.3	109.8	108.3	107.1	103.1	90.4	73.8	66.7	59.2	50.9
1250	101.3	101.4	101.5	101.4	101.8	102.4	103.2	103.4	103.7	105.0	106.5	105.0	103.8	99.9	87.1	70.6	63.3	55.4	46.8
1500	97.8	97.8	97.9	97.8	98.3	98.9	99.6	99.8	100.1	101.4	102.9	101.4	100.3	96.4	83.3	66.9	59.5	51.1	41.9
2000	93.9	93.9	94.1	93.9	94.4	94.9	95.7	95.8	96.1	97.4	98.9	97.5	96.4	93.1	79.4	62.9	54.9	46.3	36.0
2500	89.5	89.6	89.7	89.6	90.0	90.6	91.3	91.4	91.7	92.9	94.4	93.0	92.0	89.0	75.2	58.1	49.6	40.2	26.5
3150	84.7	84.8	84.9	85.0	85.3	85.7	86.4	86.5	86.7	88.0	89.4	88.1	87.1	84.4	70.6	52.6	43.7	31.3	12.8
4000	80.0	79.9	80.2	80.2	80.5	80.8	80.9	81.0	81.2	82.4	83.7	82.5	82.2	79.4	65.6	46.8	36.1	22.2	
5000	75.1	75.0	75.2	75.0	75.3	75.7	75.7	75.9	75.8	76.4	77.5	77.3	77.2	74.4	60.3	40.2	28.3	7.7	
6300	69.9	69.8	70.0	69.8	70.0	70.4	70.5	70.6	70.5	71.1	71.9	72.1	72.1	69.2	54.6	30.9	16.5		
8000	65.5	65.4	65.6	65.3	65.6	66.0	66.0	66.1	66.1	66.6	67.6	67.9	68.1	65.3	50.3	23.5	4.6		
10000	60.8	60.8	60.9	60.7	60.9	61.2	61.3	61.4	61.4	62.1	63.1	63.5	63.9	61.2	45.3	13.9			
12500	55.7	55.8	55.7	55.6	55.8	56.1	56.1	56.3	56.4	57.1	58.1	58.8	59.2	56.6	40.2	4.3			
16000	50.3	50.4	50.2	50.2	50.3	50.7	50.6	50.9	51.0	51.7	52.9	53.5	54.2	51.6	34.0				
20000	43.9	44.0	43.7	43.7	43.7	44.2	44.2	44.6	44.8	45.5	46.9	47.9	48.7	45.7	25.9				
25000	35.9	36.0	36.0	36.0	35.9	36.7	36.7	37.1	37.6	38.2	39.9	40.8	41.7	39.4	9.6				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
NORMAL RATED THRUST
SINGLE ENGINE, 100% RPM
C-135B EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -8.7 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 04
AIRCRAFT CODE 525
OPERATION CODE 06034
PROFILE VERSION A
20 MAY 76
PAGE E4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	123.9	123.9	123.9	123.9	124.2	124.9	126.5	126.2	126.8	128.7	130.7	129.0	127.2	122.0	108.5	93.5	86.5	79.4	72.3
250	121.6	121.7	121.6	121.7	122.0	122.6	124.2	123.9	124.5	126.4	128.5	126.7	124.9	119.7	106.4	91.2	84.1	77.0	69.9
315	119.3	119.3	119.3	119.3	119.6	120.3	121.9	121.6	122.1	124.0	126.1	124.4	122.6	117.5	104.2	88.8	81.7	74.6	67.5
400	116.9	116.9	116.9	116.9	117.2	117.9	119.5	119.1	119.7	121.6	123.7	122.0	120.3	115.1	102.0	86.3	79.2	72.1	64.9
500	114.4	114.4	114.4	114.4	114.7	115.3	116.9	116.6	117.1	119.1	121.1	119.4	117.8	112.7	99.7	83.8	76.6	69.5	62.1
630	111.7	111.7	111.7	111.7	112.0	112.7	114.2	113.9	114.5	116.4	118.4	116.7	115.1	110.1	97.3	81.0	73.9	66.8	59.1
800	108.9	108.9	108.9	108.9	109.2	109.8	111.4	111.0	111.6	113.5	115.5	113.9	112.3	107.4	94.7	78.2	71.1	63.8	55.8
1000	105.9	105.9	105.9	105.9	106.2	106.8	108.4	108.0	108.6	110.4	112.5	110.9	109.4	104.5	91.8	75.1	68.0	60.5	52.3
1250	102.6	102.7	102.6	102.6	102.9	103.5	105.0	104.7	105.3	107.1	109.2	107.6	106.1	101.3	88.5	71.9	64.6	56.8	48.2
1600	99.1	99.1	99.1	99.1	99.4	99.9	101.4	101.1	101.6	103.5	105.5	104.0	102.6	97.8	84.7	68.2	60.8	52.4	43.3
2000	95.2	95.2	95.2	95.2	95.5	96.0	97.5	97.1	97.7	99.5	101.5	100.0	98.7	94.5	80.8	64.2	56.2	47.6	37.3
2500	90.9	90.9	90.9	90.9	91.2	91.7	93.1	92.7	93.2	95.1	97.0	95.6	94.3	90.4	76.6	59.4	50.9	41.6	27.8
3150	86.1	86.1	86.0	86.3	86.4	86.8	88.2	87.8	88.3	90.1	92.0	90.6	89.4	85.8	72.0	53.9	45.1	32.6	14.1
4000	81.1	81.0	81.1	81.2	81.4	81.6	82.3	82.0	82.4	84.1	85.8	84.5	84.0	80.5	66.7	47.9	37.2	23.3	.1
5000	75.9	75.7	75.9	75.8	75.9	76.3	76.8	76.7	76.7	77.7	79.0	78.8	78.6	75.2	61.1	41.0	29.1	8.5	
6300	70.4	70.3	70.5	70.3	70.5	70.8	71.2	71.1	71.1	72.0	73.0	73.1	73.0	69.8	55.1	31.5	17.0		
8000	65.7	65.6	65.9	65.6	65.8	66.2	66.4	66.4	66.4	67.1	68.1	68.4	68.5	65.6	50.6	23.8	4.9		
10000	60.8	60.8	60.9	60.7	60.9	61.2	61.3	61.4	61.4	62.1	63.1	63.5	63.9	61.2	45.3	13.9			
12500	55.7	55.8	55.7	55.6	55.8	56.1	56.1	56.3	56.4	57.1	58.1	58.8	59.2	56.6	40.2	4.3			
16000	50.3	50.4	50.2	50.2	50.3	50.7	50.6	50.9	51.0	51.7	52.9	53.5	54.2	51.5	34.0				
20000	43.9	44.0	43.7	43.7	43.7	44.2	44.2	44.6	44.8	45.5	46.9	47.9	48.7	45.7	25.9				
25000	35.9	36.0	36.0	36.0	35.9	36.7	36.7	37.1	37.6	38.2	39.9	40.8	41.7	39.4	9.6				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
NORMAL RATED THRUST
SINGLE ENGINE, 100% RPM
C-135B EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -8.7 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 04
AIRCRAFT CODE 525
OPERATION CODE 06034
PROFILE VERSION A
20 MAY 76
PAGE F4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	107.2	107.4	107.6	107.4	107.9	108.5	109.0	109.3	109.4	110.5	112.0	110.3	108.4	104.7	91.1	75.3	68.6	61.9	55.3
250	105.0	105.1	105.3	105.1	105.6	106.2	106.7	107.0	107.1	108.2	109.7	108.0	106.2	102.6	89.0	73.1	66.5	59.8	53.1
315	102.7	102.8	103.0	102.8	103.3	103.9	104.4	104.7	104.7	105.8	107.3	105.6	104.0	100.4	86.9	70.9	64.3	57.6	50.9
400	100.4	100.5	100.7	100.5	101.0	101.5	102.0	102.2	102.3	103.4	104.8	103.2	101.6	98.2	84.7	68.7	62.0	55.4	48.7
500	98.0	98.1	98.3	98.1	98.6	99.1	99.5	99.7	99.8	100.8	102.3	100.7	99.2	95.9	82.4	66.4	59.7	53.0	46.4
630	95.5	95.6	95.8	95.6	96.1	96.5	96.9	97.1	97.2	98.2	99.6	98.1	96.7	93.4	80.0	64.0	57.3	50.6	44.0
800	92.9	93.0	93.2	93.0	93.5	93.9	94.2	94.5	94.5	95.5	96.8	95.4	94.2	90.9	77.6	61.5	54.8	48.2	41.5
1000	90.2	90.4	90.5	90.3	90.8	91.2	91.5	91.7	91.6	92.6	93.9	92.6	91.5	88.3	75.0	58.9	52.2	45.6	38.9
1250	87.4	87.6	87.7	87.5	88.0	88.3	88.6	88.7	88.7	89.6	90.9	89.7	88.8	85.6	72.2	56.2	49.5	42.8	36.2
1600	84.5	84.7	84.9	84.6	85.1	85.4	85.6	85.7	85.6	86.5	87.6	86.7	85.9	82.7	69.2	53.2	46.6	39.9	33.2
2000	81.6	81.7	81.9	81.7	82.0	82.3	82.5	82.6	82.5	83.3	84.3	83.6	82.9	79.7	66.2	50.1	43.5	36.8	30.1
2500	78.4	78.5	78.6	78.4	78.8	79.0	79.1	79.2	79.1	79.8	80.6	80.2	79.6	76.4	62.8	46.8	40.1	33.5	26.8
3150	74.9	75.1	75.2	74.9	75.2	75.5	75.6	75.6	75.4	76.1	76.8	76.6	76.1	72.8	59.1	43.2	36.6	29.9	23.2
4000	71.2	71.3	71.4	71.1	71.4	71.6	71.8	71.8	71.5	72.2	72.7	72.7	72.2	68.8	55.0	39.4	32.7	26.0	19.4
5000	67.0	67.1	67.1	66.9	67.1	67.3	67.5	67.5	67.3	67.9	68.3	68.4	68.0	64.6	50.6	35.2	28.5	21.9	15.2
6300	62.5	62.6	62.7	62.4	62.6	62.8	63.1	63.0	62.7	63.4	63.7	63.9	63.5	60.1	46.2	30.8	24.1	17.5	10.8
8000	58.5	58.5	58.6	58.3	58.4	58.7	59.0	58.9	58.7	59.3	59.7	60.1	59.8	56.4	42.6	27.0	20.3	13.7	7.0
10000	54.2	54.2	54.2	54.0	54.0	54.3	54.6	54.6	54.4	55.0	55.5	55.9	55.7	52.4	38.9	23.0	16.3	9.7	3.0
12500	49.5	49.5	49.5	49.3	49.3	49.6	49.8	49.9	49.8	50.3	50.9	51.5	51.3	48.2	34.9	18.9	12.2	5.5	
16000	44.4	44.4	44.4	44.3	44.2	44.5	44.7	44.7	44.8	45.2	45.9	46.6	46.6	43.8	30.8	14.8	8.1	1.4	
20000	38.8	38.9	38.8	38.7	38.6	39.0	39.1	39.2	39.4	39.8	40.6	41.3	41.5	39.1	26.7	10.9	4.2		
25000	32.7	32.8	32.8	32.7	32.6	33.0	33.1	33.2	33.5	33.9	34.8	35.6	35.2	34.4	22.5	7.3	.7		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
NORMAL RATED THRUST
SINGLE ENGINE, 100% RPM
C-135B EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -8.7 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 04
AIRCRAFT CODE 525
OPERATION CODE 06034
PROFILE VERSION A
20 MAY 76
PAGE G4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	108.6	108.7	108.7	108.6	109.0	109.6	110.8	110.6	111.0	112.6	114.6	112.8	110.7	106.1	92.5	76.6	69.9	63.3	56.6
250	106.3	106.4	106.4	106.4	106.7	107.3	108.5	108.3	108.7	110.3	112.3	110.5	108.5	103.9	90.4	74.5	67.8	61.1	54.5
315	104.1	104.1	104.2	104.1	104.4	105.0	106.2	106.0	106.3	108.0	109.9	108.1	106.3	101.8	88.3	72.3	65.6	58.9	52.3
400	101.7	101.8	101.8	101.8	102.1	102.6	103.8	103.5	103.9	105.5	107.5	105.7	103.9	99.6	86.1	70.0	63.4	56.7	50.0
500	99.3	99.4	99.4	99.3	99.7	100.2	101.3	101.0	101.3	103.0	104.9	103.2	101.5	97.2	83.8	67.7	61.0	54.4	47.7
630	96.8	96.9	96.9	96.9	97.2	97.6	98.7	98.4	98.7	100.3	102.3	100.6	99.0	94.8	81.4	65.3	58.6	52.0	45.3
800	94.2	94.3	94.3	94.3	94.6	95.0	96.1	95.8	96.0	97.6	99.5	97.9	96.5	92.3	79.0	62.8	56.2	49.5	42.8
1000	91.6	91.7	91.7	91.6	91.9	92.3	93.3	93.0	93.2	94.7	96.6	95.1	93.8	89.7	76.4	60.2	53.6	46.9	40.2
1250	88.8	88.9	88.9	88.8	89.1	89.4	90.4	90.0	90.2	91.7	93.5	92.2	91.1	87.0	73.6	57.5	50.8	44.2	37.5
1600	85.9	86.0	86.0	85.9	86.2	86.5	87.4	87.0	87.2	88.6	90.3	89.2	88.2	84.1	70.6	54.6	47.9	41.2	34.6
2000	82.9	83.0	83.0	82.9	83.2	83.4	84.3	83.9	84.0	85.4	86.9	86.1	85.2	81.1	67.6	51.5	44.8	38.1	31.5
2500	79.7	79.8	79.8	79.7	79.9	80.1	81.0	80.5	80.6	81.9	83.3	82.7	81.9	77.8	64.2	48.1	41.5	34.8	28.1
3150	76.3	76.4	76.3	76.2	76.4	76.6	77.4	76.9	77.0	78.2	79.4	79.1	78.4	74.2	60.5	44.6	37.9	31.2	24.6
4000	72.2	72.3	72.3	72.2	72.3	72.5	73.2	72.8	72.8	73.9	74.8	74.7	74.1	69.9	56.1	40.4	33.8	27.1	20.4
5000	67.8	67.9	67.8	67.7	67.8	68.0	68.6	68.3	68.2	69.2	69.9	69.9	69.4	65.4	51.5	36.0	29.3	22.7	16.0
6300	63.6	63.1	63.1	62.9	63.1	63.2	63.8	63.6	63.4	64.2	64.8	65.0	64.5	60.7	46.7	31.3	24.7	18.0	11.3
8000	58.7	58.8	58.8	58.6	58.7	58.9	59.3	59.2	59.0	59.7	60.2	60.6	60.2	56.7	42.9	27.3	20.6	13.9	7.3
10000	54.2	54.2	54.2	54.0	54.0	54.3	54.5	54.6	54.4	55.0	55.5	55.9	55.7	52.4	38.9	23.0	16.3	9.7	3.0
12500	49.5	49.5	49.5	49.3	49.3	49.6	49.8	49.9	49.8	50.3	50.9	51.5	51.3	48.2	34.9	18.9	12.2	5.5	
16000	44.4	44.4	44.4	44.3	44.2	44.5	44.7	44.7	44.8	45.2	45.9	46.6	46.6	43.8	30.8	14.8	8.1	1.4	
20000	38.8	38.9	38.8	38.7	38.6	39.0	39.1	39.2	39.4	39.8	40.6	41.3	41.5	39.1	26.7	10.9	4.2		
25000	32.7	32.8	32.8	32.7	32.6	33.0	33.1	33.2	33.5	33.9	34.8	35.6	36.2	34.4	22.5	7.3	.7		

> SPL DATA HERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

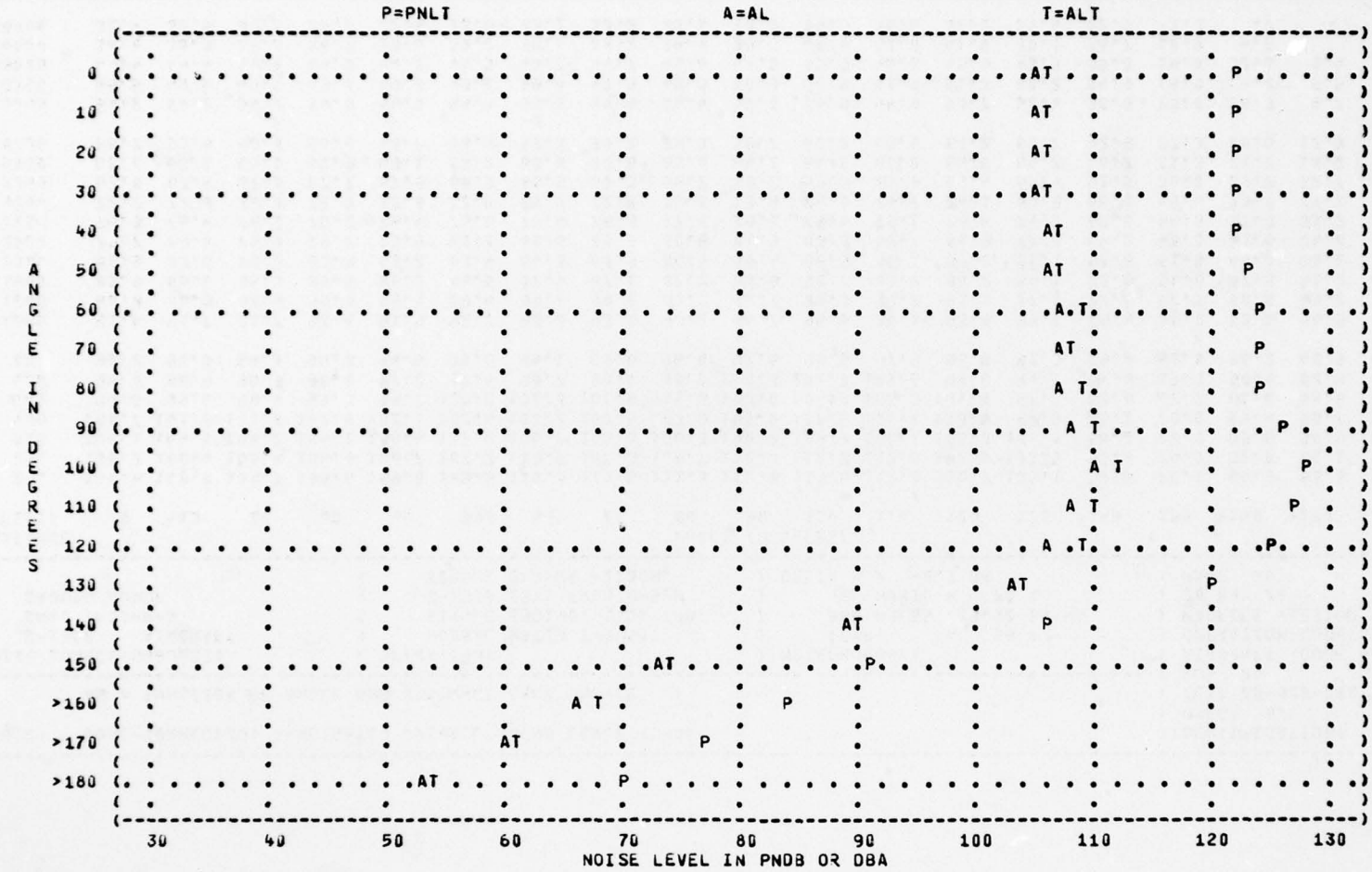
NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
NORMAL RATED THRUST
SINGLE ENGINE, 100% RPM
C-135B EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -8.7 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 04
AIRCRAFT CODE 525
OPERATION CODE 06034
PROFILE VERSION A
20 MAY 76
PAGE J4

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 05
AIRCRAFT CODE 525
OPERATION CODE 01031
PROFILE VERSION A
20 MAY 76
PAGE C5

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
MAXIMUM POWER, 104% RPM
SINGLE ENGINE, C-135B
EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = .3 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	88	86	86	90	90	90	91	94	94	95	96	97	100	105	104	95	83	73	63
63	91	89	91	92	92	95	94	95	95	96	98	100	105	108	107	94	80	70	60
80	92	90	93	94	94	95	96	97	98	99	100	101	104	109	106	91	78	68	58
100	94	95	94	95	95	96	97	98	101	100	103	102	105	109	103	93	77	67	57
125	96	96	94	95	97	97	97	97	98	100	103	102	106	109	99	95	75	65	55
160	96	95	94	97	97	96	98	98	100	101	102	103	107	106	99	93	72	62	52
200	95	98	97	97	98	98	100	100	101	100	103	105	108	107	97	89	70	60	50
250	96	96	96	97	98	99	99	100	100	101	102	103	106	106	96	89	67	57	47
315	96	95	95	97	98	99	98	98	98	99	99	100	103	100	92	86	65	55	45
400	95	95	95	97	99	100	100	100	100	99	99	100	104	100	90	86	66	56	46
500	97	97	97	97	97	99	97	98	97	99	98	98	103	97	89	85	65	55	45
630	95	96	96	96	97	97	97	97	97	96	97	99	103	96	86	83	65	55	45
800	96	94	94	96	96	96	95	95	94	95	96	97	99	92	85	81	62	52	42
1000	97	97	96	97	96	97	96	94	94	94	94	95	97	92	84	81	63	53	43
1250	97	97	95	97	97	96	96	94	94	94	94	96	95	92	83	79	62	52	42
1600	94	93	94	94	94	95	95	94	93	92	93	93	93	88	80	74	59	49	39
2000	96	95	95	95	96	96	96	94	94	93	93	93	93	88	78	73	59	49	39
2500	95	94	94	96	95	97	97	96	95	94	93	93	92	89	78	73	59	49	39
3150	98	97	97	100	99	101	103	102	102	96<	102	98	98	93	83	78	63	53	43
4000	95	96	96	99	98	100	102	100	99	98	98	97	97	93	84	78	63	53	43
5000	92	92	93	94	94	95	96	95	95	94	93	92	92	90	78	73	57	47	37
6300	92	91	93	94	94	96	97	97	95	96	95	92	91	88	79	72	55	45	35
8000	89	89	90	91	92	94	95	96	94	92	93	91	91	90	80	72	55	45	35
10000	84	84	84	85	87	88	90	90	89	87	88	84	85	82	73	65	48	38	28
OVERALL	109	109	108	110	110	111	111	111	111	111	113	113	116	117	112	102	87	77	67

XXX< = EXTRAPOLATED OR INTERPOLATED SPL
> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
MAXIMUM POWER, 104% RPM
SINGLE ENGINE, C-135B
EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = .3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 05
AIRCRAFT CODE 525
OPERATION CODE 01031
PROFILE VERSION A
20 MAY 76
PAGE D5

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	124.1	123.4	123.3	125.2	125.0	126.5	127.4	126.8	126.7	124.9	126.7	125.3	126.6	123.5	115.6	108.7	92.3	81.7	71.2
250	121.8	121.1	121.1	122.9	122.7	124.3	125.2	124.5	124.4	122.7	124.4	123.1	124.4	121.4	113.5	106.5	89.9	79.3	68.8
315	119.5	118.8	118.7	120.6	120.4	121.9	122.8	122.2	122.1	120.3	122.1	120.8	122.1	119.2	111.3	104.3	87.5	77.0	66.4
400	117.1	116.4	116.3	118.2	118.0	119.5	120.4	119.8	119.7	117.8	119.7	118.4	119.7	116.9	109.1	102.1	85.1	74.5	63.8
500	114.6	113.9	113.8	115.7	115.5	117.0	117.8	117.2	117.1	115.3	117.2	115.9	117.3	114.6	106.9	99.8	82.5	71.9	61.1
630	112.0	111.3	111.2	113.0	112.8	114.4	115.2	114.6	114.5	112.5	114.6	113.3	114.7	112.0	104.6	97.2	79.8	69.2	58.1
800	109.2	108.5	108.4	110.2	110.0	111.5	112.3	111.7	111.6	109.6	111.8	110.6	112.0	109.4	102.1	94.5	77.0	66.4	54.9
1000	106.2	105.5	105.4	107.2	107.0	108.5	109.3	108.7	108.6	106.5	108.8	107.6	109.1	106.5	99.6	91.7	74.0	63.3	51.4
1250	103.0	102.3	102.1	103.9	103.8	105.3	106.0	105.4	105.3	103.1	105.5	104.4	106.0	103.5	96.7	88.6	70.7	59.8	47.4
1600	99.4	98.7	98.6	100.4	100.2	101.7	102.4	101.8	101.8	99.5	102.0	100.9	103.0	100.2	93.4	85.5	67.2	55.8	42.7
2000	95.6	94.9	94.7	96.5	96.4	97.8	98.5	97.9	97.8	95.8	98.1	97.1	99.9	96.9	89.7	82.2	63.4	51.4	37.1
2500	91.3	90.8	90.6	92.2	92.0	93.5	94.1	93.5	93.4	92.0	93.7	92.9	95.9	92.9	85.1	78.2	59.0	46.5	30.5
3150	86.9	86.5	86.3	87.4	87.5	88.6	89.2	88.6	88.5	87.8	88.8	88.8	91.7	88.3	79.9	74.0	54.4	41.1	21.9
4000	82.2	81.9	81.6	82.5	82.8	83.8	83.7	83.4	83.1	83.2	83.6	84.3	87.2	83.2	74.9	69.3	48.9	34.4	10.4
5000	77.3	77.1	76.6	77.6	77.9	78.8	78.4	78.4	78.1	78.2	78.6	79.4	82.4	78.1	69.9	64.3	42.3	25.1	
6300	72.2	72.0	71.5	72.4	72.7	73.6	73.2	73.2	72.9	73.1	73.5	74.3	77.4	73.0	64.7	58.9	35.0	15.7	
8000	67.7	67.4	67.2	68.0	68.4	69.4	68.7	68.9	68.6	69.0	69.4	70.2	73.5	69.2	60.9	54.9	28.7	6.3	
10000	63.1	62.9	62.7	63.5	63.8	64.9	64.1	64.5	64.0	64.7	65.0	65.8	69.2	65.2	56.7	50.4	21.0		
12500	58.2	58.0	57.8	58.5	58.8	60.0	59.1	59.7	59.1	60.0	60.3	60.9	64.7	60.9	52.1	45.1	10.7		
16000	52.7	52.6	52.3	53.1	53.5	54.7	53.8	54.4	53.8	54.8	55.2	55.9	59.9	56.2	46.9	39.1	.3		
20000	46.7	46.6	46.2	47.1	47.5	48.7	47.7	48.6	48.1	49.1	49.5	50.3	54.5	50.8	41.0	32.2			
25000	39.2	39.0	38.5	39.6	40.1	41.6	40.9	41.6	41.4	42.2	42.8	43.4	48.4	44.7	33.6	20.8			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
MAXIMUM POWER, 104% RPM
SINGLE ENGINE, C-135B
EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = .3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 05
AIRCRAFT CODE 525
OPERATION CODE 01031
PROFILE VERSION A
20 MAY 76
PAGE E5

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	124.1	123.4	123.3	125.2	125.0	126.5	128.6	128.1	128.2	126.1	128.7	126.4	127.9	124.4	116.8	109.3	93.3	82.7	72.2
250	121.8	121.1	121.1	122.9	122.7	124.3	126.3	125.8	126.0	123.8	126.5	124.2	125.6	122.2	114.7	107.1	90.9	80.3	69.8
315	119.5	118.8	118.7	120.6	120.4	121.9	124.0	123.5	123.6	121.4	124.2	121.9	123.4	120.0	112.6	105.0	88.5	78.0	67.4
400	117.1	116.4	116.3	118.2	118.0	119.5	121.6	121.1	121.2	116.9	121.8	119.5	121.0	117.8	110.4	102.7	86.1	75.5	64.8
500	114.6	113.9	113.8	115.7	115.5	117.0	119.0	118.5	118.7	116.4	119.3	117.1	118.6	115.4	108.1	100.4	83.5	72.9	62.1
630	112.0	111.3	111.2	113.0	112.8	114.4	116.3	115.9	116.0	113.6	116.6	114.4	116.0	112.9	105.8	97.9	80.8	70.2	59.1
800	109.2	108.5	108.4	110.2	110.0	111.5	113.5	113.0	113.2	110.7	113.8	111.7	113.3	110.2	103.4	95.2	78.0	67.4	55.9
1000	106.2	105.5	105.4	107.2	107.0	108.5	110.5	110.0	110.2	107.6	110.8	108.8	110.4	107.4	100.8	92.3	75.0	64.3	52.4
1250	103.0	102.3	102.1	103.9	103.8	105.3	107.2	106.7	106.9	104.2	107.6	105.6	107.3	104.3	97.9	89.2	71.7	60.8	48.4
1600	99.4	98.7	98.6	100.4	100.2	101.7	103.6	103.1	103.3	100.7	104.0	102.1	104.3	101.0	94.6	86.1	68.2	56.8	43.7
2000	95.6	94.9	94.7	96.5	96.4	97.8	99.7	99.2	99.4	96.9	100.1	98.2	101.2	97.8	90.9	82.8	64.4	52.4	38.1
2500	91.3	90.8	90.6	92.2	92.0	93.5	95.3	94.8	95.0	93.1	95.7	94.1	97.2	93.7	86.3	78.8	60.0	47.6	31.6
3150	86.9	86.5	86.3	87.4	87.5	88.6	90.4	89.9	90.1	88.9	90.8	89.9	93.0	89.2	81.2	74.6	55.4	42.1	22.9
4000	82.2	81.9	81.6	82.5	82.8	83.8	84.6	84.4	84.4	84.0	85.3	85.2	88.3	83.9	75.9	69.8	49.7	35.2	11.2
5000	77.3	77.1	76.6	77.6	77.9	78.8	79.1	79.2	79.0	78.9	79.9	80.1	83.2	78.6	70.7	64.6	42.9	25.7	
6300	72.2	72.0	71.5	72.4	72.7	73.6	73.6	73.7	73.5	73.5	74.3	74.8	77.9	73.3	65.2	59.1	35.4	16.1	
8000	67.7	67.4	67.2	68.0	68.4	69.4	69.0	69.2	68.9	69.2	69.8	70.4	73.7	69.4	61.1	55.0	28.9	6.5	
10000	63.1	62.9	62.7	63.5	63.8	64.9	64.1	64.5	64.0	64.7	65.0	65.8	69.2	65.2	56.7	50.4	21.0		
12500	58.2	58.0	57.8	58.5	58.8	60.0	59.1	59.7	59.1	60.0	60.3	60.9	64.7	60.9	52.1	45.1	10.7		
16000	52.7	52.6	52.3	53.1	53.5	54.7	53.8	54.4	53.8	54.8	55.2	55.9	59.9	56.2	46.9	39.1	.3		
20000	46.7	46.6	46.2	47.1	47.5	48.7	47.7	48.6	48.1	49.1	49.5	50.3	54.5	50.8	41.0	32.2			
25000	39.2	39.0	38.5	39.6	40.1	41.6	40.9	41.6	41.4	42.2	42.8	43.4	48.4	44.7	33.6	20.8			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 05
AIRCRAFT CODE 525
OPERATION CODE 01031
PROFILE VERSION A
20 MAY 76
PAGE F5

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
MAXIMUM POWER, 104% RPM
SINGLE ENGINE, C-135B
EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = .3 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	109.3	108.8	108.6	110.2	110.1	111.3	112.0	111.2	110.7	109.3	110.5	109.8	111.6	108.1	99.3	93.8	76.2	66.2	56.2
250	107.1	106.6	106.4	108.0	107.9	109.1	109.7	108.9	108.4	107.1	108.2	107.7	109.5	106.0	97.2	91.7	74.1	64.1	54.1
315	104.9	104.4	104.2	105.7	105.6	106.8	107.4	106.5	106.1	104.8	105.9	105.4	107.3	103.8	95.1	89.6	71.9	61.9	51.9
400	102.5	102.1	101.8	103.3	103.3	104.4	105.0	104.1	103.7	102.4	103.6	103.2	105.1	101.5	92.9	87.4	69.7	59.7	49.7
500	100.2	99.7	99.5	100.9	100.9	102.0	102.5	101.6	101.2	100.0	101.1	100.8	102.9	99.3	90.6	85.2	67.4	57.4	47.4
630	97.7	97.3	97.0	98.4	98.4	99.4	99.9	99.0	98.7	97.5	98.6	98.4	100.5	96.9	88.3	82.8	65.0	55.0	45.0
800	95.2	94.8	94.5	95.8	95.8	96.8	97.2	96.4	96.0	94.9	96.0	95.9	98.1	94.5	85.9	80.5	62.6	52.6	42.6
1000	92.6	92.2	91.9	93.2	93.2	94.1	94.4	93.6	93.2	92.3	93.3	93.3	95.7	91.9	83.3	78.0	60.0	50.0	40.0
1250	89.9	89.5	89.1	90.4	90.4	91.3	91.5	90.7	90.4	89.5	90.4	90.6	93.1	89.1	80.6	75.4	57.4	47.4	37.4
1500	87.1	86.7	86.3	87.5	87.6	88.4	88.4	87.6	87.4	86.7	87.5	87.9	90.5	86.3	77.7	72.7	54.6	44.6	34.6
2000	84.2	83.9	83.4	84.5	84.7	85.4	85.3	84.7	84.3	83.8	84.5	85.0	87.8	83.3	74.8	70.0	51.8	41.8	31.8
2500	81.1	80.8	80.3	81.3	81.5	82.2	81.9	81.4	81.0	80.6	81.2	81.9	84.7	80.0	71.4	66.9	48.6	38.6	28.6
3150	77.7	77.5	77.0	77.9	78.1	78.7	78.3	77.9	77.4	77.2	77.7	78.5	81.4	76.3	67.8	63.5	45.2	35.2	25.2
4000	74.1	73.8	73.3	74.2	74.4	74.9	74.5	74.0	73.5	73.4	73.9	74.8	77.7	72.4	63.8	59.7	41.5	31.5	21.5
5000	70.0	69.8	69.2	70.2	70.2	70.7	70.2	69.8	69.2	69.3	69.7	70.7	73.5	68.1	59.5	55.6	37.4	27.4	17.4
6300	65.6	65.4	64.8	65.8	65.8	66.3	65.8	65.3	64.7	64.8	65.2	66.3	69.1	63.6	55.1	51.2	33.0	23.0	13.0
8000	61.4	61.2	60.6	61.6	61.7	62.2	61.6	61.4	60.7	60.9	61.3	62.4	65.4	59.9	51.5	47.5	29.1	19.1	9.1
10000	56.9	56.6	56.1	57.1	57.2	57.8	57.2	57.1	56.5	56.7	57.2	58.2	61.4	56.1	47.6	43.4	25.0	15.0	5.0
12500	51.9	51.7	51.3	52.2	52.4	53.1	52.5	52.6	51.9	52.2	52.6	53.6	57.1	51.9	43.6	39.1	20.6	10.6	.6
16000	46.5	46.3	46.0	46.9	47.2	48.1	47.3	47.7	47.0	47.4	47.7	48.7	52.3	47.5	39.5	34.4	15.9	5.9	
20000	40.7	40.6	40.3	41.1	41.6	42.5	41.8	42.3	41.7	42.1	42.5	43.4	47.1	42.9	35.3	29.5	11.2	1.2	
25000	34.4	34.4	34.2	34.9	35.5	36.6	35.8	36.4	36.0	36.4	36.8	37.7	41.5	38.3	31.3	24.5	6.6		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 05
AIRCRAFT CODE 525
OPERATION CODE 01031
PROFILE VERSION A
20 MAY 76
PAGE G5

NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
MAXIMUM POWER, 104% RPM
SINGLE ENGINE, C-135B
EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = .3 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	109.3	108.8	108.6	110.2	110.1	111.3	113.2	112.5	112.3	110.4	112.5	111.0	112.9	108.9	100.5	94.4	77.2	67.2	57.2
250	107.1	106.6	106.4	108.0	107.9	109.1	110.9	110.2	110.0	108.2	110.3	108.8	110.8	106.8	98.4	92.3	75.1	65.1	55.1
315	104.9	104.4	104.2	105.7	105.6	106.8	108.6	107.8	107.6	105.9	108.0	106.6	108.6	104.7	96.3	90.2	72.9	62.9	52.9
400	102.5	102.1	101.8	103.3	103.3	104.4	106.1	105.4	105.2	103.5	105.6	104.3	106.4	102.5	94.1	88.0	70.7	60.7	50.7
500	100.2	99.7	99.5	100.9	100.9	102.0	103.6	102.9	102.8	101.1	103.2	102.0	104.2	100.2	91.9	85.8	68.4	58.4	48.4
630	97.7	97.3	97.0	98.4	98.4	99.4	101.0	100.3	100.2	98.6	100.6	99.5	101.8	97.8	89.5	83.5	66.0	56.0	46.0
800	95.2	94.8	94.5	95.8	95.8	96.8	98.4	97.7	97.6	96.0	98.0	97.0	99.4	95.3	87.1	81.1	63.6	53.6	43.6
1000	92.6	92.2	91.9	93.2	93.2	94.1	95.6	94.9	94.8	93.4	95.3	94.5	97.0	92.7	84.6	78.6	61.0	51.0	41.0
1250	89.9	89.5	89.1	90.4	90.4	91.3	92.6	92.0	91.9	90.6	92.5	91.8	94.4	90.0	81.8	76.0	58.4	48.4	38.4
1500	87.1	86.7	86.3	87.5	87.6	88.4	89.6	89.1	88.9	87.8	89.5	89.0	91.8	87.1	79.0	73.4	55.6	45.6	35.6
2000	84.2	83.9	83.4	84.5	84.7	85.4	86.5	86.0	85.9	84.9	86.5	86.2	89.1	84.1	76.0	70.6	52.8	42.8	32.8
2500	81.1	80.8	80.3	81.3	81.5	82.2	83.1	82.7	82.5	81.7	83.2	83.0	86.0	80.8	72.6	67.5	49.6	39.6	29.6
3150	77.7	77.5	77.0	77.9	78.1	78.7	79.5	79.2	78.9	78.3	79.7	79.7	82.7	77.2	69.0	64.1	46.2	36.2	26.2
4000	74.1	73.8	73.3	74.2	74.4	74.9	75.4	75.1	74.7	74.3	75.5	75.7	78.7	73.0	64.8	60.2	42.3	32.3	22.3
5000	70.6	69.8	69.2	70.2	70.2	70.7	70.9	70.6	70.1	69.9	70.9	71.4	74.2	68.6	60.3	55.9	38.0	28.0	18.0
6300	65.6	65.4	64.8	65.8	65.8	66.3	66.2	65.8	65.3	65.3	66.0	66.8	69.6	64.0	55.6	51.5	33.4	23.4	13.4
8000	61.4	61.2	60.6	61.6	61.7	62.2	61.9	61.6	61.0	61.1	61.7	62.6	65.7	60.1	51.7	47.6	29.3	19.3	9.3
10000	56.9	56.6	56.1	57.1	57.2	57.8	57.2	57.1	56.5	56.7	57.2	58.2	61.4	56.0	47.6	43.4	25.0	15.0	5.0
12500	51.9	51.7	51.3	52.2	52.4	53.1	52.5	52.6	51.9	52.2	52.6	53.6	57.1	51.9	43.6	39.1	20.6	10.6	.6
16000	46.5	46.3	46.0	46.9	47.2	48.1	47.3	47.7	47.0	47.4	47.7	48.7	52.3	47.5	39.5	34.4	15.9	5.9	
20000	40.7	40.6	40.3	41.1	41.6	42.5	41.8	42.3	41.7	42.1	42.5	43.4	47.1	42.9	35.3	29.5	11.2	1.2	
25000	34.4	34.4	34.2	34.9	35.5	36.6	35.8	36.4	36.0	36.4	36.8	37.7	41.5	38.3	31.3	24.5	6.6		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

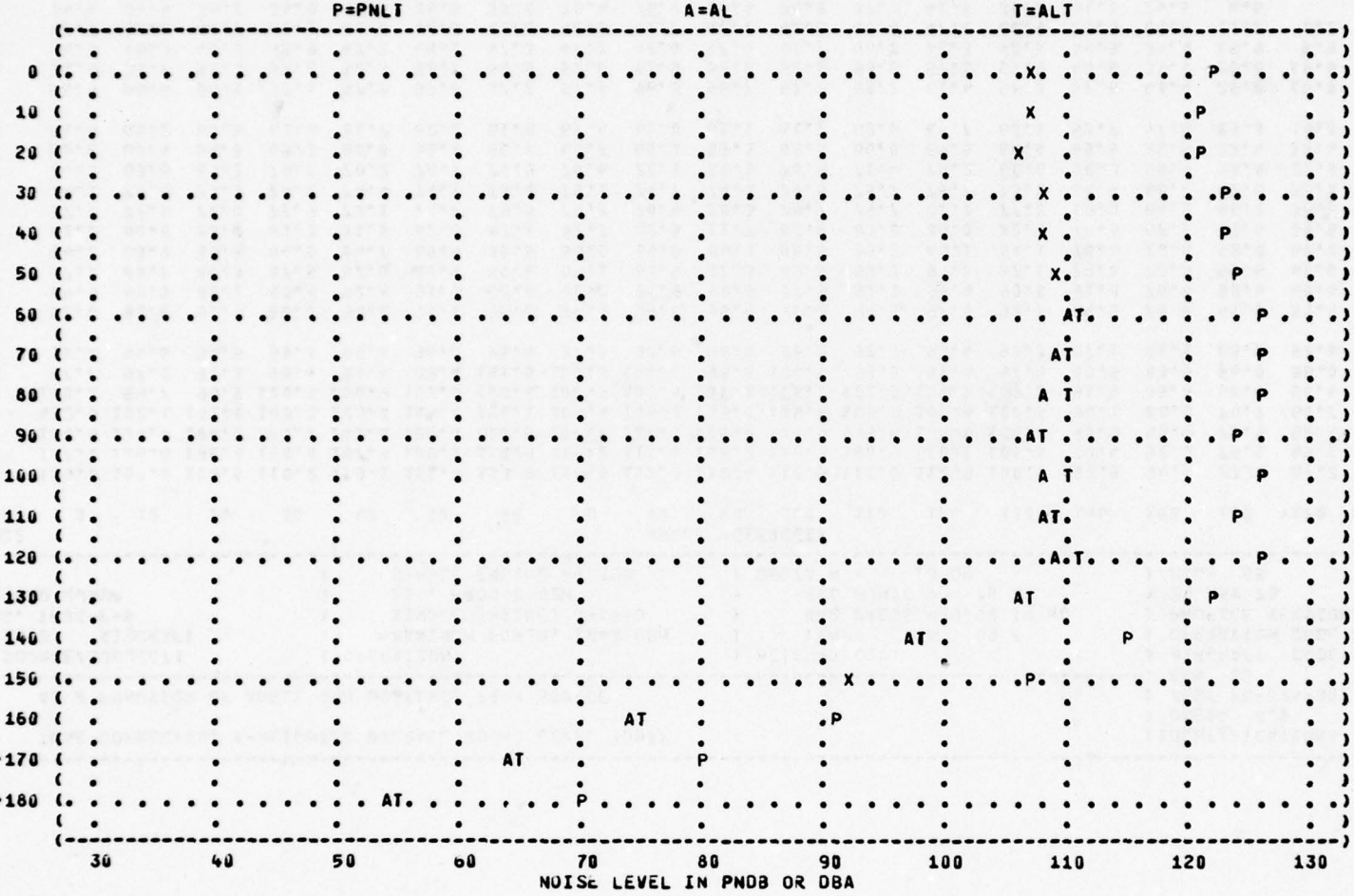
NOISE SOURCE/SUBJECT:
C-135B AIRCRAFT
ENG. TF33-P-5
GROUND RUNUP

OPERATION:
MAXIMUM POWER, 104% RPM
SINGLE ENGINE, C-135B
EST. FROM B-52H
SINGLE ENGINE +0.3DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = .3 DB

IDENTIFICATION:
OMEGA 8.2
TEST 75-525-001
RUN 05
AIRCRAFT CODE 525
OPERATION CODE 01031
PROFILE VERSION A
20 MAY 76
PAGE J5

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAF C-140 AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

C-140 AIRCRAFT

DURING FLIGHT OPERATIONS

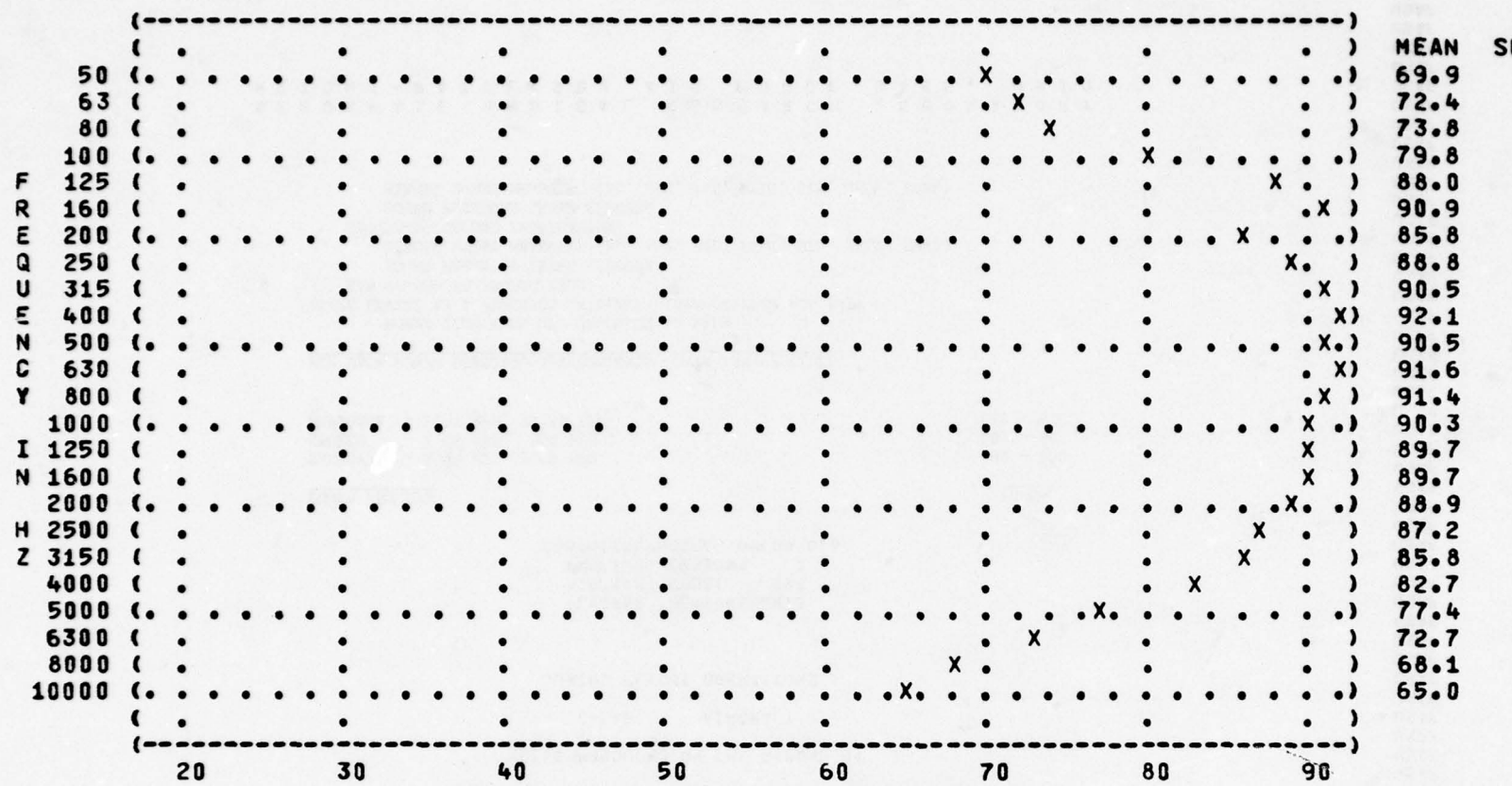
FLYOVER MEASUREMENTS
AIRCRAFT CODE: 508
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

POWER SETTING		PAGE
TAKEOFF	- 1.94 EPR, 100% RPM	592 - 600
CRUISE	- 1.66 EPR, 89% RPM	601 - 609
APPROACH	- 1.37 EPR, 79.5% RPM	610 - 618

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
AIR-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

A E R O S P A C E M E D I C A L R E S E A R C H L A B O R A T O R Y
W R I G H T - P A T T E R S O N A I R F O R C E B A S E , O H I O



C-140 TAKEOFF POWER 100 % RPM 1.94 EPR

AIRSPEED = 180 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-508-103-170276

PNLT = 112.3 PNDB
PNL = 111.6 PNDB
ALT = 100.4 DBA
AL = 99.8 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-140

OPERATION:
TAKEOFF POWER
100 % RPM 1.94 EPR
AIRSPEED = 180 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

IDENTIFICATION:
A/C CODE: 508
OPS CODE: 103
PROFILE VER: A
17 FEB 76
PAGE H1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	84	86	88	94	102	105	100	103	105	107	105	106	106	106	105	106	106	105	105	104	99	98	99	103
250	82	84	86	92	100	103	98	101	103	105	103	104	104	104	103	104	103	103	102	101	97	95	96	100
315	80	82	84	90	98	101	96	99	101	103	101	102	102	101	101	102	101	100	100	99	94	92	92	96
400	78	80	82	88	96	99	94	97	99	100	99	100	100	99	99	99	99	98	97	96	91	89	89	91
500	76	78	80	86	94	97	92	95	97	98	97	98	98	97	97	97	97	95	95	93	88	86	84	86
630	74	76	78	84	92	95	90	93	95	96	95	96	96	95	94	95	94	93	92	90	85	82	80	80
800	72	74	76	82	90	93	88	91	93	94	93	94	94	93	92	92	92	90	89	86	81	78	74	73
1000	70	72	74	80	88	91<	86	89	91	92	91	92	91	90	90	90	89	87	86	83	77	73	68	65
1250	68	70	72	78	86	89	84	87	88	90	88	89	89	88	87	87	86	84	82	78	73	67	61	55
1600	66	68	70	76	84	87	82	85	86	88	86	87	87	85	84	84	83	81	78	74	67	60	52	43
2000	64	66	68	74	82	85	79	82	84	85	84	85	84	83	82	81	79	77	74	68	61	52	41	29
2500	62	64	66	72	80	83	77	80	82	83	81	82	81	80	79	78	76	72	69	62	54	43	29	11
3150	60	62	64	69	78	80	75	78	79	81	79	79	79	77	75	74	72	67	63	54	46	32	13	
4000	58	60	61	67	75	78	73	76	77	78	76	77	75	73	72	70	67	62	56	45	35	18		
5000	56	58	59	65	73	76	70	73	74	75	73	73	72	70	67	65	61	55	47	34	23	1		
6300	53	56	57	63	71	74	68	71	72	73	70	70	68	66	63	59	55	47	37	21	8			
8000	51	54	55	61	69	71	66	68	69	70	67	66	64	61	57	53	47	38	25	5				
10000	49	51	53	58	66	69	63	65	66	66	63	62	60	55	51	46	38	27	11					
12500	47	49	50	56	64	66	60	62	63	63	59	58	54	49	44	37	27	13						
16000	45	47	48	53	61	63	57	59	59	58	54	52	48	42	35	26	14							
20000	42	44	45	51	58	60	54	55	55	54	49	46	41	33	24	13								
25000	40	42	43	48	55	57	50	51	50	48	43	39	32	23	12									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: C-140

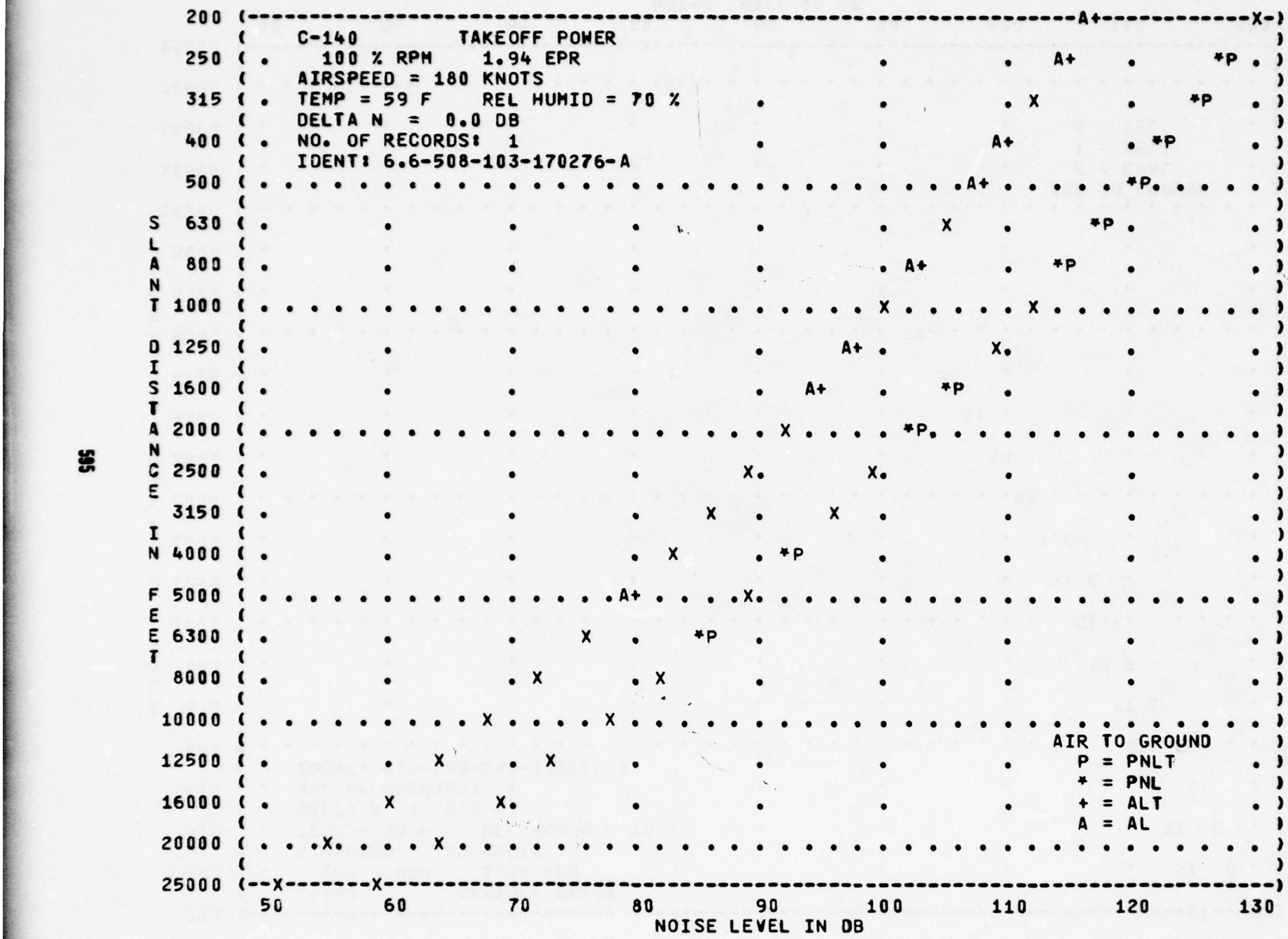
OPERATION: TAKEOFF POWER
100 % RPM 1.94 EPR
AIRSPEED = 180 KNOTS

METEOROLOGY: TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 508
OPS CODE: 103
PROFILE VER: A
17 FEB 76
PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	116.3	116.9	129.6	130.2	115.4	116.2	119.6
250	114.0	114.7	127.3	127.9	114.2	115.0	118.3
315	111.8	112.5	124.9	125.6	112.9	113.7	116.9
400	109.5	110.2	122.4	123.1	111.6	112.4	115.4
500	107.1	107.8	119.9	120.6	110.3	111.1	113.9
630	104.8	105.4	117.2	117.9	108.9	109.7	112.2
800	102.3	103.0	114.4	115.1	107.4	108.2	110.5
1000	99.8	100.4	111.6	112.3	105.9	106.7	108.6
1250	97.2	97.8	108.6	109.3	104.3	105.1	106.6
1600	94.5	95.1	105.5	106.2	102.6	103.4	104.5
2000	91.7	92.3	102.2	102.9	100.8	101.6	102.2
2500	88.7	89.4	98.8	99.5	98.9	99.7	99.8
3150	85.7	86.4	95.5	96.2	96.8	97.6	97.5
4000	82.5	83.1	92.2	92.8	94.7	95.3	95.1
5000	79.2	79.6	88.8	89.2	92.4	92.8	92.5
6300	75.8	76.0	85.3	85.5	89.9	90.2	89.8
8000	72.1	72.2	81.5	81.6	87.2	87.4	86.9
10000	68.3	68.3	77.6	77.6	84.4	84.4	83.8
12500	64.2	64.2	73.4	73.4	81.3	81.3	80.6
16000	59.9	59.9	68.8	68.8	78.1	78.1	77.0
20000	55.4	55.4	63.9	63.9	74.6	74.6	73.1
25000	50.7	50.7	58.9	58.9	70.8	70.8	69.1

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-140 TAKEOFF POWER
100 % RPM 1.94 EPR
AIRSPEED = 180 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-508-103-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

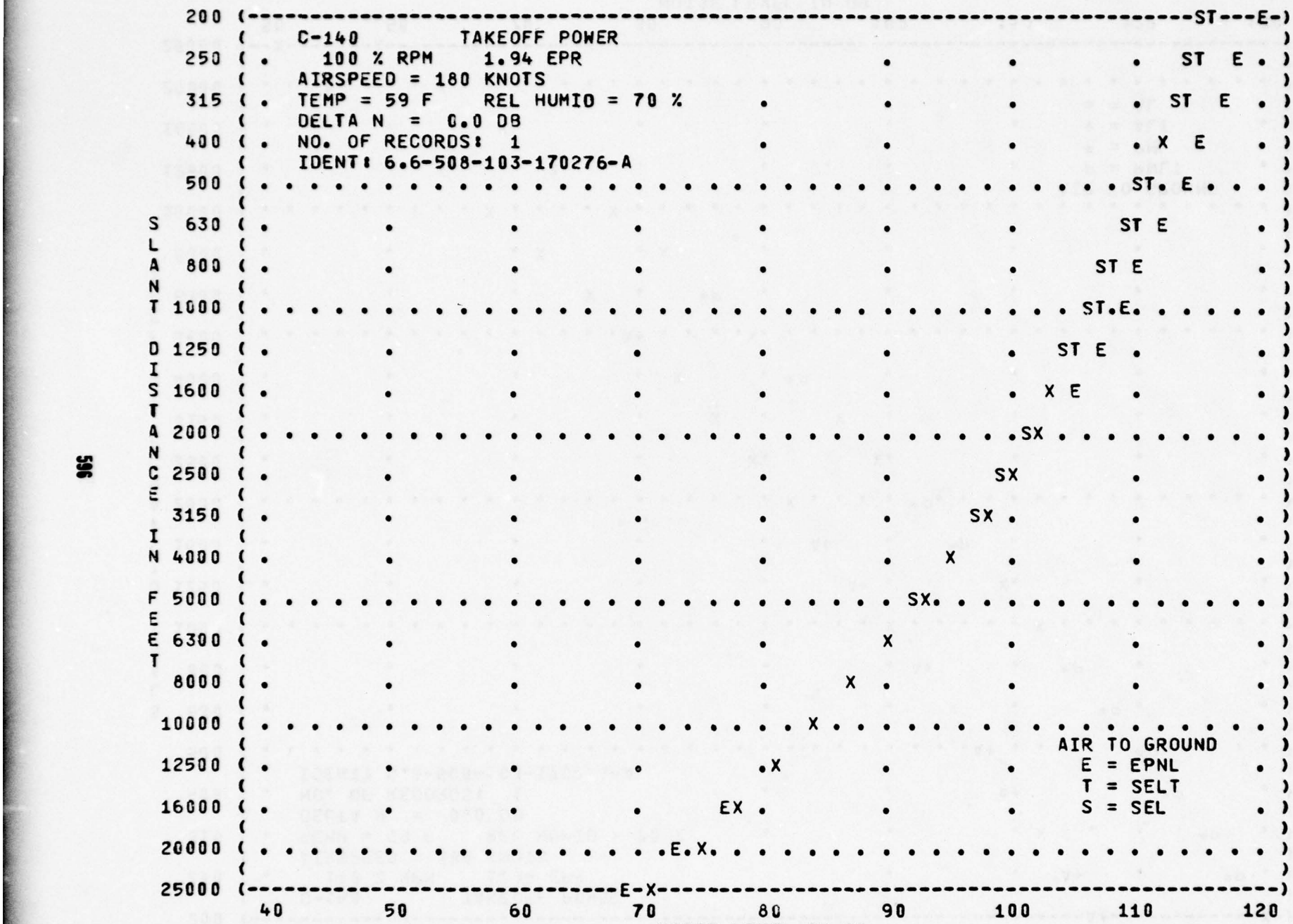

C-140 TAKEOFF POWER
100 % RPM 1.94 EPR
AIRSPEED = 180 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-508-103-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

AIRCRAFT: C-140

OPERATION: TAKEOFF POWER, 100 % RPM, 1.94 EPR, AIRSPEED = 180 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

IDENTIFICATION: OMEGA 6.6, A/C CODE: 508, OPS CODE: 103, PROFILE VER: A, 17 FEB 76, PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	79	81	83	89	97	100	95	98	100	102	100	101	101	101	100	101	101	100	100	99	94	93	94	98
250	77	79	81	87	95	98	93	96	98	100	98	99	99	99	98	99	98	98	97	96	92	90	91	95
315	75	77	79	85	93	96	91	94	96	98	96	97	97	96	96	97	96	95	95	94	89	87	87	91
400	73	75	77	83	91	94	89	92	94	95	94	95	95	94	94	94	94	93	92	91	86	84	84	86
500	71	73	75	81	89	91	86	90	92	93	92	93	93	92	92	92	92	90	90	88	83	81	79	81
630	69	71	73	79	86	89	84	87	90	91	90	91	91	90	89	90	89	88	87	85	80	77	75	75
800	67	69	71	76	84	86	81	85	88	89	88	89	89	88	87	87	87	85	84	81	76	73	69	68
1000	65	67	69	74	81	83<	78	82	85	87	86	87	86	85	85	85	84	82	81	78	72	68	63	60
1250	63	65	66	70	78	80	75	78	82	85	83	84	84	83	82	82	81	79	77	73	68	62	56	50
1600	61	62	62	67	74	77	71	75	79	83	81	82	82	80	79	79	78	76	73	69	62	55	47	38
2000	58	59	59	63	70	73	67	71	76	80	79	80	79	78	77	76	74	72	69	63	56	47	36	24
2500	54	55	55	59	66	68	63	67	72	77	76	77	76	75	74	73	71	67	64	57	49	38	24	6
3150	50	50	50	54	61	63	58	61	67	72	73	74	74	72	70	69	67	62	58	49	41	27	8	
4000	46	45	45	48	55	58	52	56	62	68	69	71	70	68	67	65	62	57	51	40	30	13		
5000	41	40	40	44	51	53	47	51	56	62	65	67	67	65	62	60	56	50	42	29	18			
6300	35	36	35	39	46	48	43	46	50	57	60	62	62	61	58	54	50	42	32	16	3			
8000	33	34	33	37	44	46	40	43	47	54	57	58	58	56	52	48	42	33	20	0				
10000	31	31	31	34	41	43	37	40	44	50	53	54	54	50	46	41	33	22	6					
12500	29	29	28	32	39	40	35	37	41	47	49	50	48	44	39	32	22	8						
16000	27	27	26	29	36	38	31	34	37	42	44	44	42	37	30	21	9							
20000	24	24	23	27	33	35	28	30	33	38	39	38	35	28	19	8								
25000	22	22	21	24	30	31	24	26	28	32	33	31	26	18	7									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: C-140

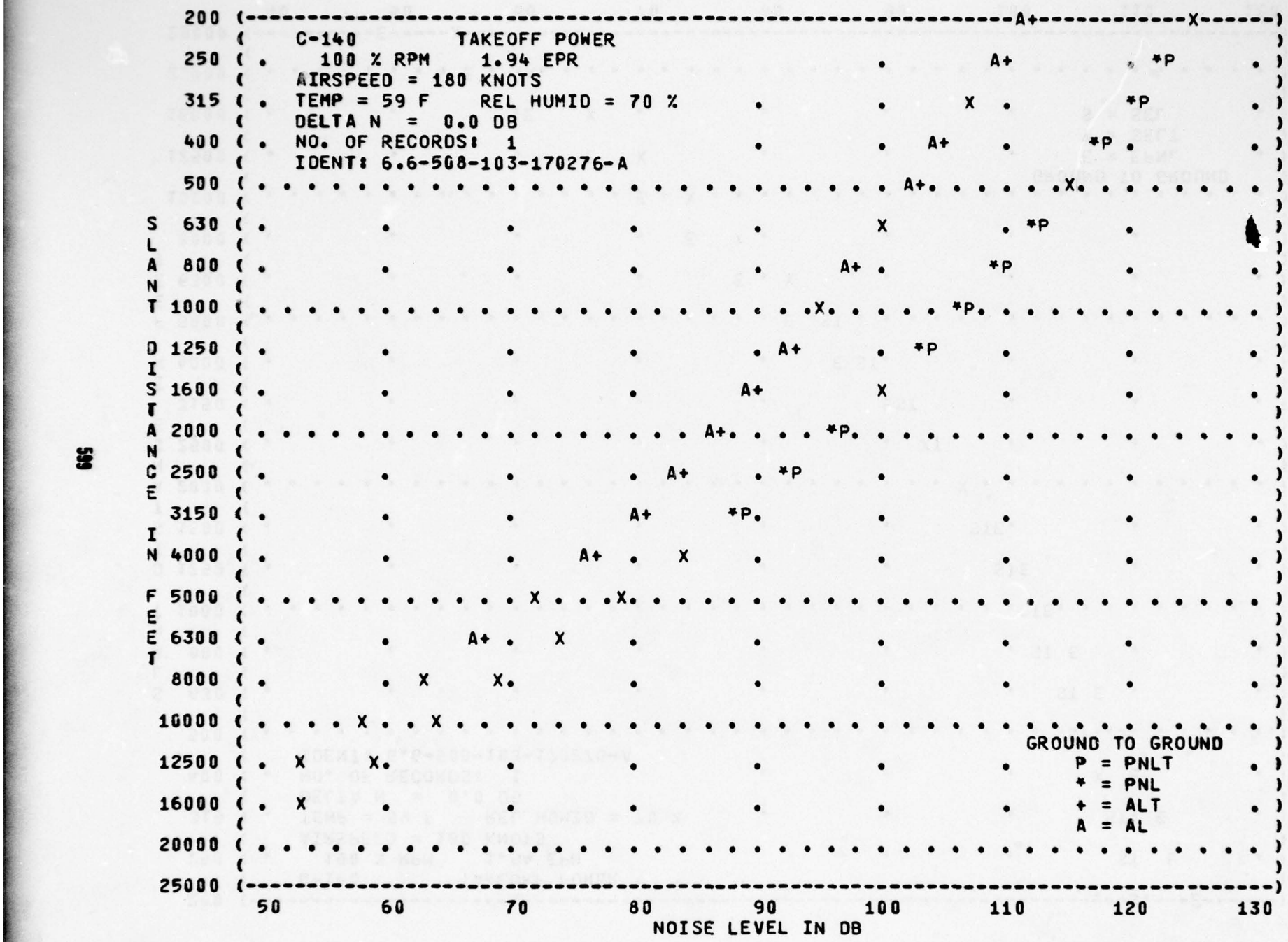
OPERATION: TAKEOFF POWER, 100 % RPM 1.94 EPR, AIRSPEED = 180 KNOTS

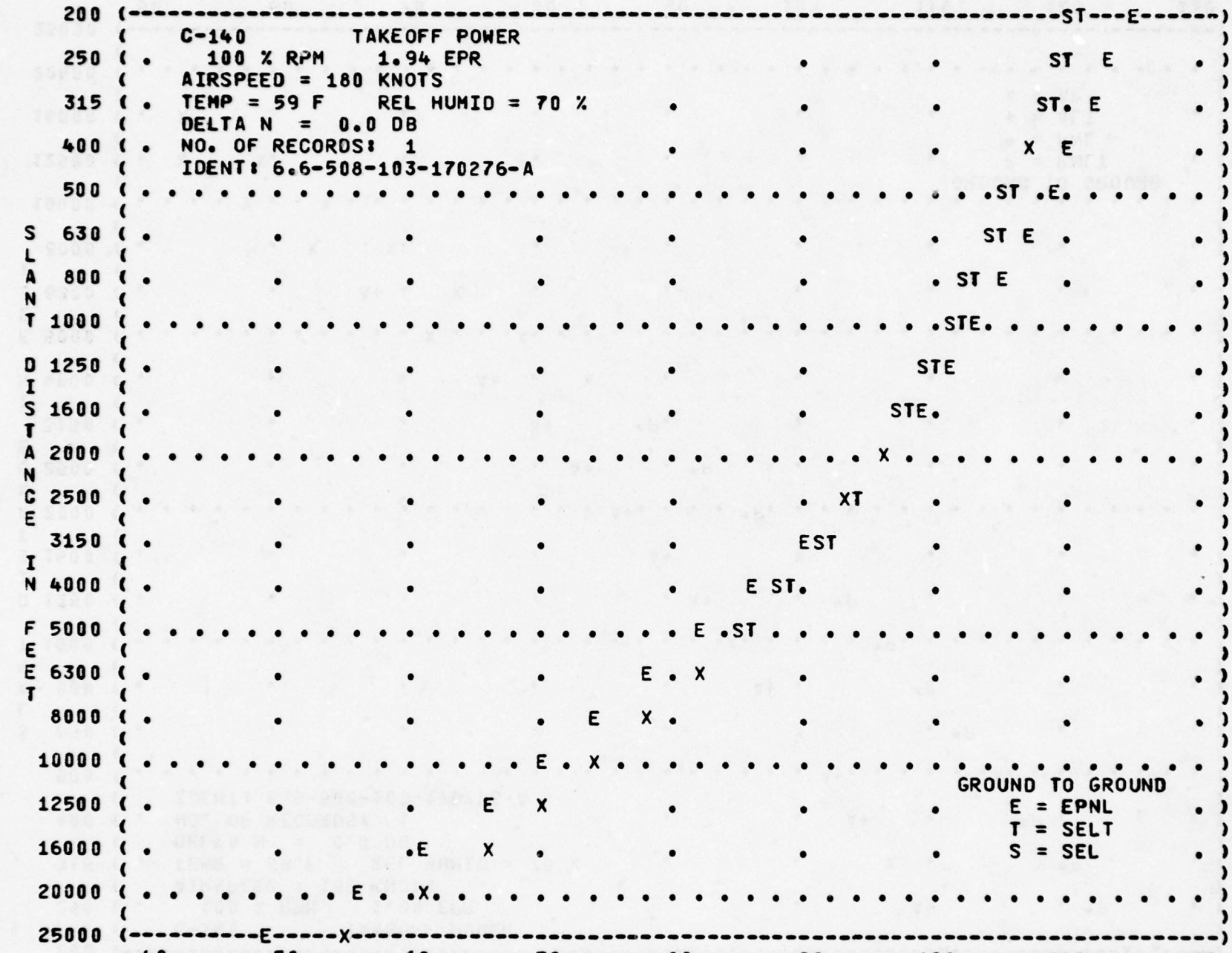
METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

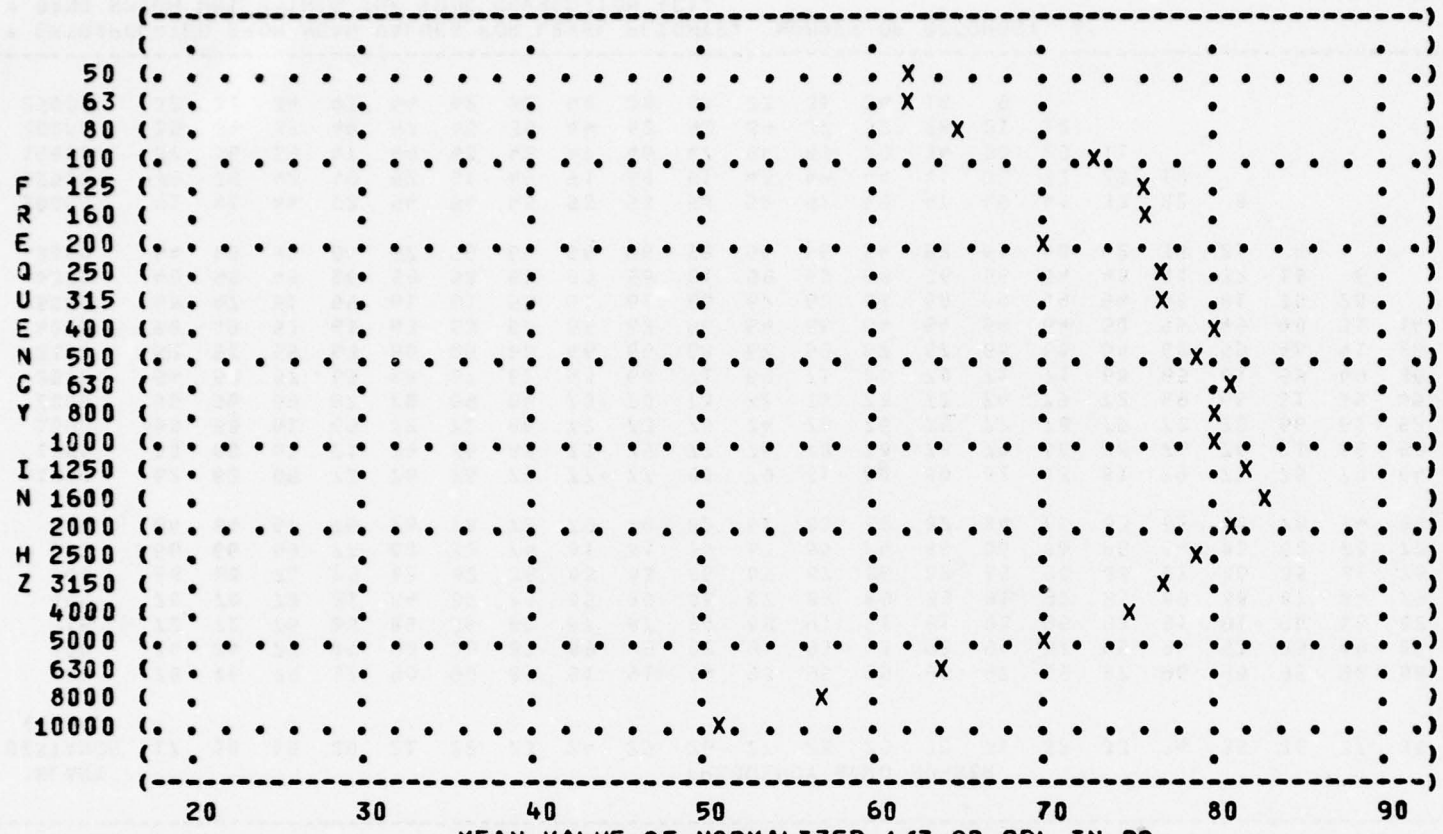
A/C CODE: 508
OPS CODE: 103
PROFILE VER: A
17 FEB 76
PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	111.3	111.9	124.6	125.2	110.4	111.2	114.5
250	109.0	109.7	122.3	122.9	109.2	109.9	113.2
315	106.8	107.4	119.9	120.5	107.9	108.7	111.8
400	104.5	105.1	117.4	118.0	106.6	107.4	110.4
500	102.1	102.8	114.8	115.5	105.3	106.0	108.8
630	99.7	100.4	112.1	112.8	103.9	104.6	107.1
800	97.3	97.9	109.3	109.9	102.4	103.2	105.2
1000	94.7	95.3	106.3	107.0	100.9	101.6	103.3
1250	92.1	92.7	103.2	103.8	99.2	100.0	101.1
1600	89.3	89.9	99.9	100.5	97.4	98.2	98.8
2000	86.4	87.1	96.3	96.9	95.6	96.3	96.2
2500	83.3	83.9	92.4	93.0	93.5	94.2	93.3
3150	79.9	80.6	88.2	88.8	91.1	91.8	90.1
4000	76.2	76.7	83.6	84.1	88.3	88.9	86.4
5000	72.0	72.4	78.8	79.2	85.1	85.6	82.5
6300	67.4	67.7	73.7	73.9	81.5	81.8	78.2
8000	63.1	63.2	69.0	69.2	78.2	78.3	74.4
10000	58.3	58.3	64.2	64.2	74.5	74.5	70.4
12500	53.2	53.2	58.8	58.8	70.3	70.3	66.0
16000	47.6	47.6	52.9	52.9	65.7	65.7	61.1
20000	41.4	41.4	46.4	46.4	60.5	60.5	55.6
25000	34.7	34.7	38.7	38.7	54.8	54.8	48.9

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-140 TAKEOFF POWER
100 % RPM 1.94 EPR
AIRSPEED = 180 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-508-103-170276-A
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB


C-140 TAKEOFF POWER
100 % RPM 1.94 EPR
AIRSPEED = 180 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-508-103-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



C-140 CRUISE POWER 89 % RPM 1.66 EPR

AIRSPEED = 250 KNOTS
SLANT DISTANCE = 1000 FEET
NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %
IDENT: 6.6-508-104-170276

PNLT = 102.7 PNDB
PNL = 102.2 PNDB
ALT = 91.1 DBA
AL = 90.5 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: C-140

OPERATION: CRUISE POWER, 89 % RPM, 1.66 EPR, AIRSPEED = 250 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 508
OPS CODE: 104
PROFILE VER: A
17 FEB 76
PAGE H2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	76	76	79	87	90	90	85	91	91	94	93	95	95	95	97	99	97	96	95	95	92	88	86	87
250	74	74	77	85	88	88	83	89	89	92	91	93	93	93	95	97	95	94	93	93	89	85	83	83
315	72	72	75	83	86	86	80	87	87	90	89	91	91	91	93	95	93	91	91	90	86	82	80	80
400	70	70	73	81	84	84	78	85	85	88	87	89	89	89	91	92	91	89	88	87	84	79	76	75
500	68	68	71	79	82	82	76	83	83	86	85	87	86	87	89	90	88	87	86	85	81	76	72	71
630	66	66	69	77	80	80	74	81	81	84	83	85	84	84	86	88	86	84	83	82	78	72	68	65
800	64	64	67	75	78	78	72	79	79	82	81	83	82	82	84	85	83	81	80	78	74	68	63	59
1000	62	62	65	73	76	76	70	77<	77	80	79	81	80	80	82	83	81	79	77	75	70	64	57	51
1250	60	60	63	71	74	74	68	75	75	77	76	78	78	78	79	80	78	76	74	71	66	58	50	42
1600	58	58	61	69	72	72	66	72	73	75	74	76	75	75	77	78	75	72	70	66	61	52	42	31
2000	56	56	59	67	70	69	64	70	70	73	72	74	73	72	74	75	72	69	66	61	55	45	33	18
2500	54	53	57	65	68	67	62	68	68	71	69	71	70	70	71	71	68	65	61	55	49	36	21	2
3150	52	51	55	63	66	65	60	66	66	68	67	69	67	67	68	68	64	60	55	48	41	26	7	
4000	50	49	53	61	63	63	57	64	63	66	64	66	64	64	64	64	60	55	49	40	31	14		
5000	48	47	51	59	61	61	55	61	61	63	62	63	61	60	60	59	54	48	41	30	20			
6300	46	45	48	56	59	58	53	59	58	61	59	60	58	56	56	54	48	41	32	18	6			
8000	44	43	46	54	57	56	50	56	56	58	55	56	54	52	51	48	42	33	21	4				
10000	41	41	44	52	54	54	48	53	53	54	52	52	49	47	45	41	33	22	8					
12500	39	39	42	49	52	51	45	51	50	51	48	48	44	41	38	33	23	10						
16000	37	36	39	47	49	48	42	47	46	47	44	43	39	34	30	23	11							
20000	35	34	37	44	47	45	39	44	42	43	39	37	32	26	21	12								
25000	32	31	34	42	44	42	35	40	38	38	33	31	24	16	9									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-140

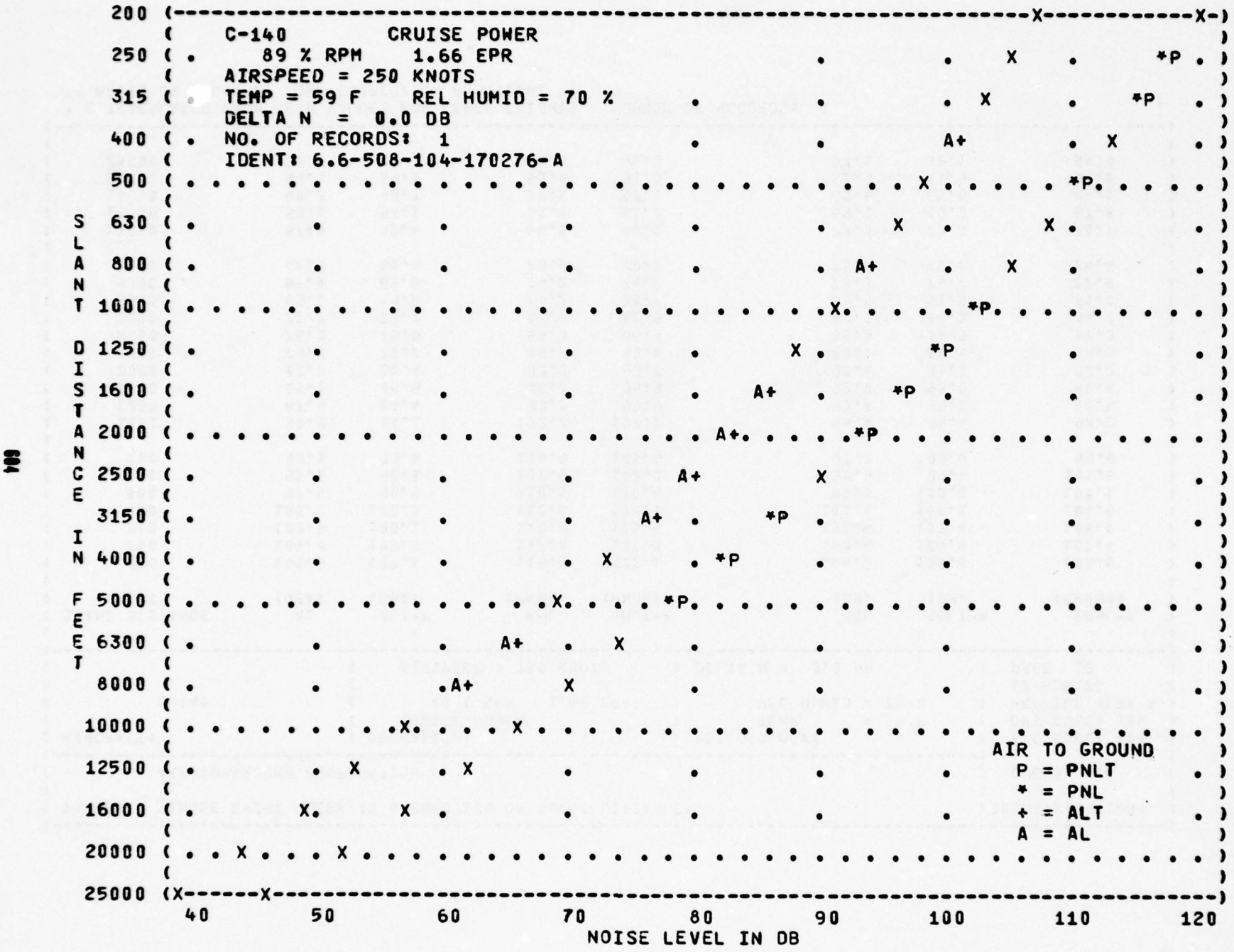
OPERATION:
CRUISE POWER
89 % RPM 1.66 EPR
AIRSPEED = 250 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 508
OPS CODE: 104
PROFILE VER: A
17 FEB 76
PAGE I2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	106.9	107.5	119.6	120.1	104.8	105.8	108.6
250	104.8	105.3	117.3	117.8	103.6	104.6	107.4
315	102.5	103.1	115.0	115.5	102.4	103.4	106.0
400	100.3	100.8	112.6	113.1	101.1	102.1	104.6
500	97.9	98.5	110.1	110.6	99.8	100.8	103.1
630	95.5	96.1	107.5	108.0	98.4	99.4	101.6
800	93.1	93.6	104.9	105.4	97.0	98.0	99.9
1000	90.5	91.1	102.2	102.7	95.4	96.4	98.2
1250	87.9	88.4	99.3	99.9	93.8	94.8	96.4
1600	85.1	85.6	96.3	96.9	92.0	93.0	94.4
2000	82.2	82.8	93.2	93.7	90.1	91.1	92.2
2500	79.2	79.7	89.9	90.4	88.1	89.1	89.9
3150	76.0	76.5	86.3	86.8	85.9	86.9	87.3
4000	72.7	73.1	82.5	82.9	83.5	84.3	84.3
5000	69.1	69.4	78.3	78.7	81.0	81.6	81.0
6300	65.4	65.6	74.0	74.2	78.3	78.7	77.5
8000	61.5	61.6	70.1	70.2	75.4	75.6	74.4
10000	57.4	57.4	66.1	66.1	72.3	72.3	71.1
12500	53.1	53.1	61.8	61.8	69.0	69.0	67.8
16000	48.7	48.7	57.1	57.1	65.6	65.6	64.1
20000	44.1	44.1	51.8	51.8	61.9	61.9	59.8
25000	39.2	39.2	45.9	45.9	58.1	58.1	54.9

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-140 CRUISE POWER
89 % RPM 1.66 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-508-104-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

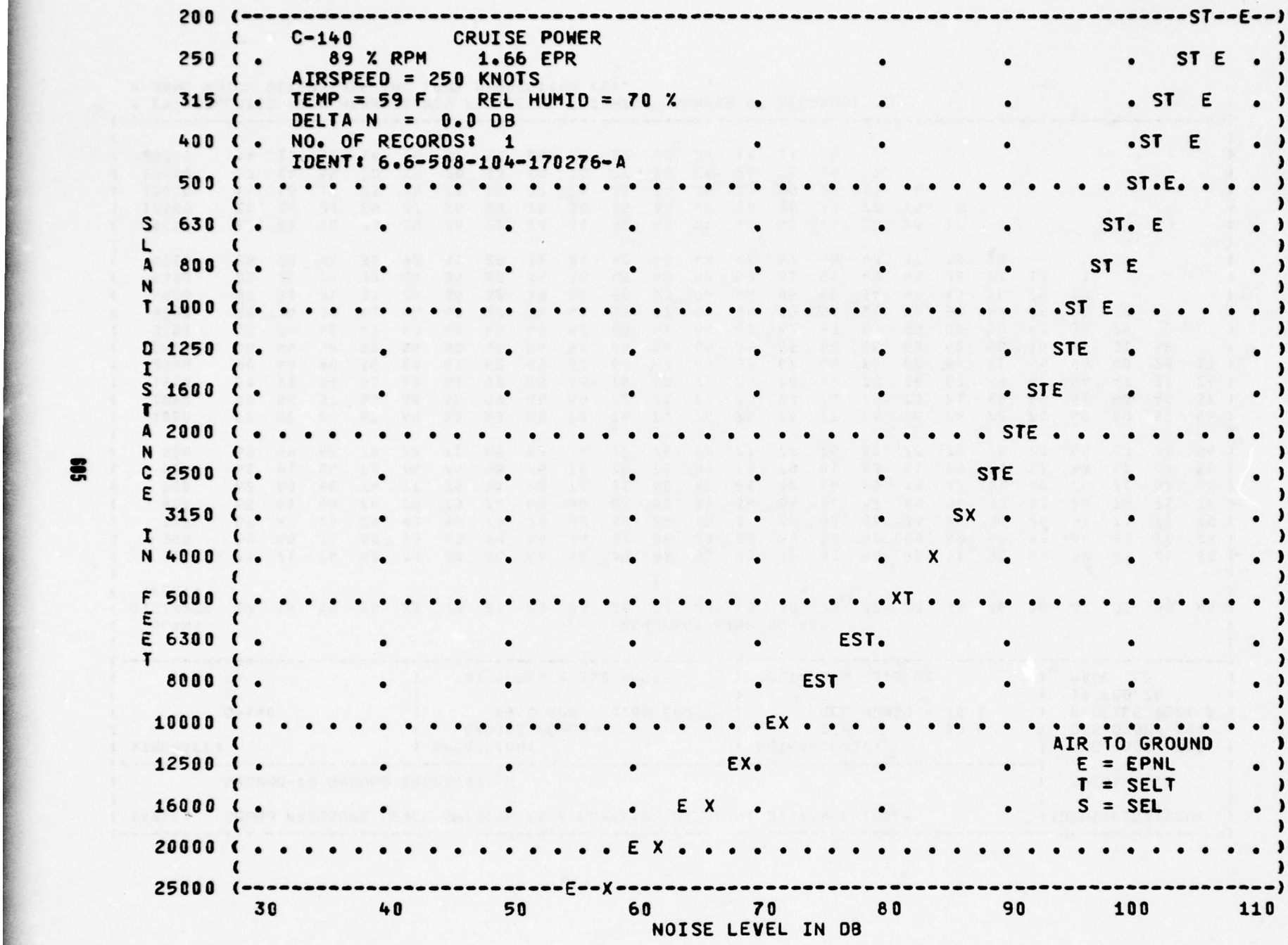

C-140 CRUISE POWER
89 % RPM 1.66 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-508-104-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
AIR TO GROUND
E = EPNL
T = SELT
S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-140

OPERATION:
CRUISE POWER
89 % RPM 1.66 EPR
AIRSPEED = 250 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 508
OPS CODE: 104
PROFILE VER: A
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PAGE L2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	71	71	74	82	85	85	80	86	86	89	88	90	90	90	92	94	92	91	90	90	87	83	81	82
250	69	69	72	80	83	83	78	84	84	87	86	88	88	88	90	92	90	89	88	88	84	80	78	78
315	67	67	70	78	81	81	75	82	82	85	84	86	86	86	88	90	88	86	86	85	81	77	75	75
400	65	65	68	76	79	79	73	80	80	83	82	84	84	84	86	87	86	84	83	82	79	74	71	70
500	63	63	66	74	77	76	71	78	78	81	80	82	81	82	84	85	83	82	81	80	76	71	67	66
630	61	61	64	72	74	74	68	75	76	79	78	80	79	79	81	83	81	79	78	77	73	67	63	60
800	59	59	62	70	72	71	65	72	74	77	76	78	77	77	79	80	78	76	75	73	69	63	58	54
1000	57	57	60	67	69	68	63	69	72	75	74	76	75	75	77	78	76	74	72	70	65	59	52	46
1250	55	55	57	64	66	65	59	66	69	72	71	73	73	73	74	75	73	71	69	66	61	53	45	37
1600	53	51	54	60	62	61	56	63	65	70	69	71	70	70	72	73	70	67	65	61	56	47	37	26
2000	50	48	50	56	58	57	52	59	62	68	67	69	68	67	69	70	67	64	61	56	50	40	28	13
2500	46	44	46	52	54	53	48	54	58	64	64	66	65	65	66	66	63	60	56	50	44	31	16	
3150	42	39	41	47	49	48	43	49	53	60	61	64	62	62	63	63	59	55	50	43	36	21	2	
4000	38	34	36	42	44	43	37	44	48	55	57	60	59	59	59	59	55	50	44	35	26	9		
5000	33	30	31	37	39	38	32	39	42	50	53	56	56	55	55	54	49	43	36	25	15			
6300	28	25	26	32	34	33	27	34	36	45	49	52	52	51	51	49	43	36	27	13	1			
8000	26	23	24	30	32	31	25	31	34	42	45	48	48	47	46	43	37	28	16					
10000	23	21	22	28	29	28	22	28	31	38	42	44	43	42	40	36	28	17	3					
12500	21	19	20	25	27	26	19	26	28	35	38	40	38	36	33	28	18	5						
16000	19	16	17	23	24	23	16	22	24	31	34	35	33	29	25	18	6							
20000	17	14	15	20	22	20	13	19	20	27	29	29	26	21	16	7								
25000	14	11	12	18	19	17	10	15	16	22	23	23	18	11	4									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-140

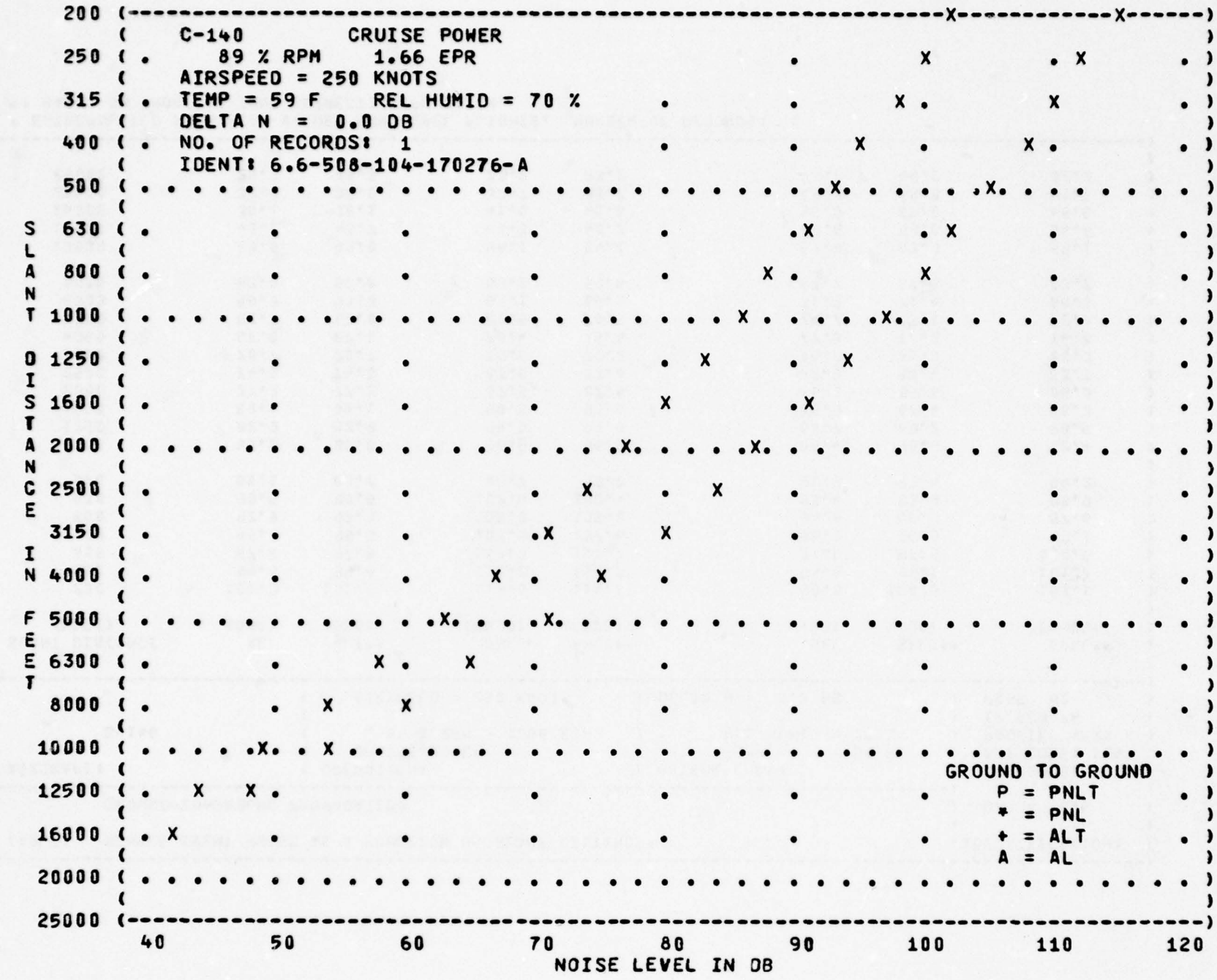
OPERATION:
CRUISE POWER
89 % RPM 1.66 EPR
AIRSPEED = 250 KNOTS

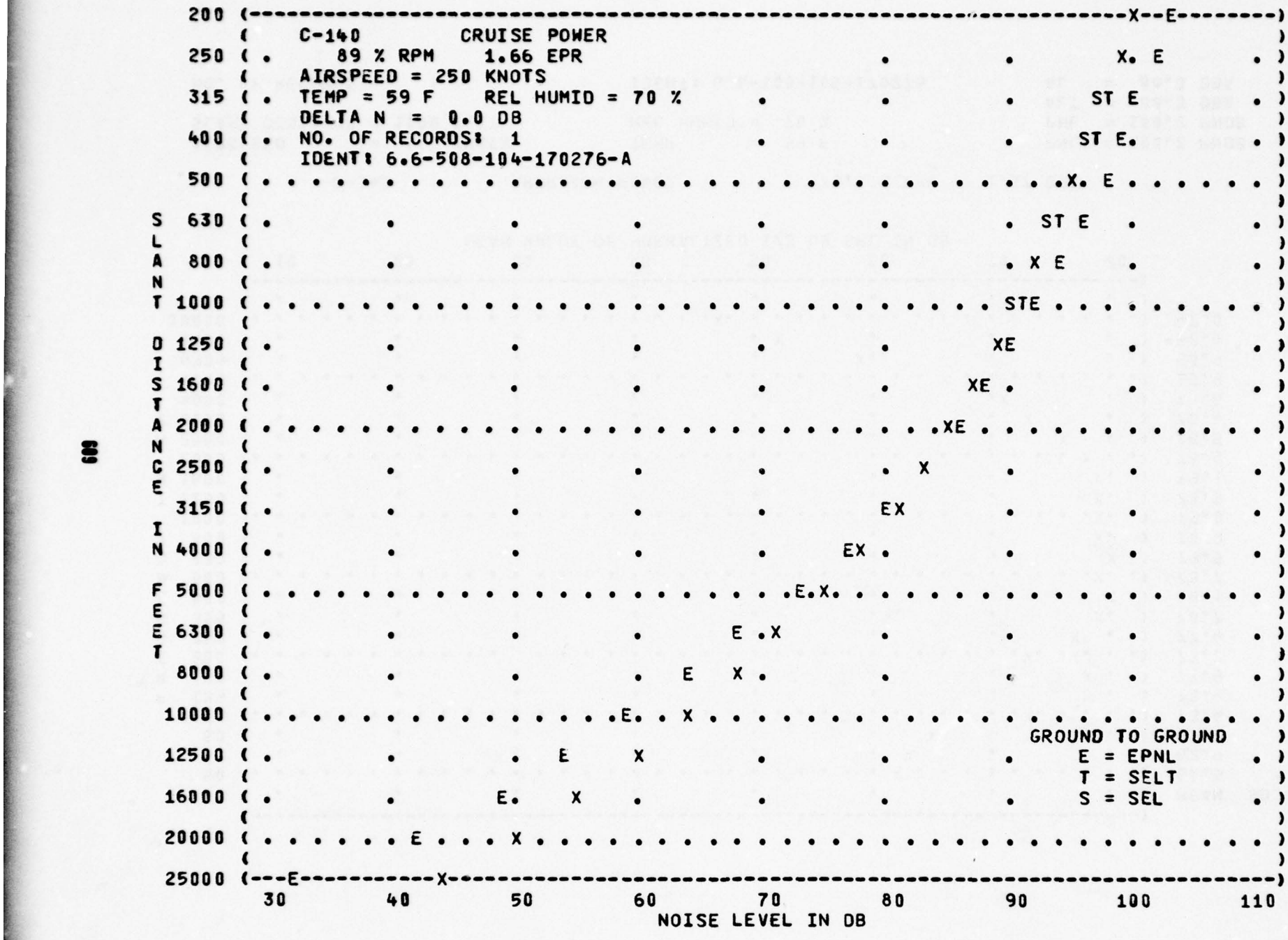
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

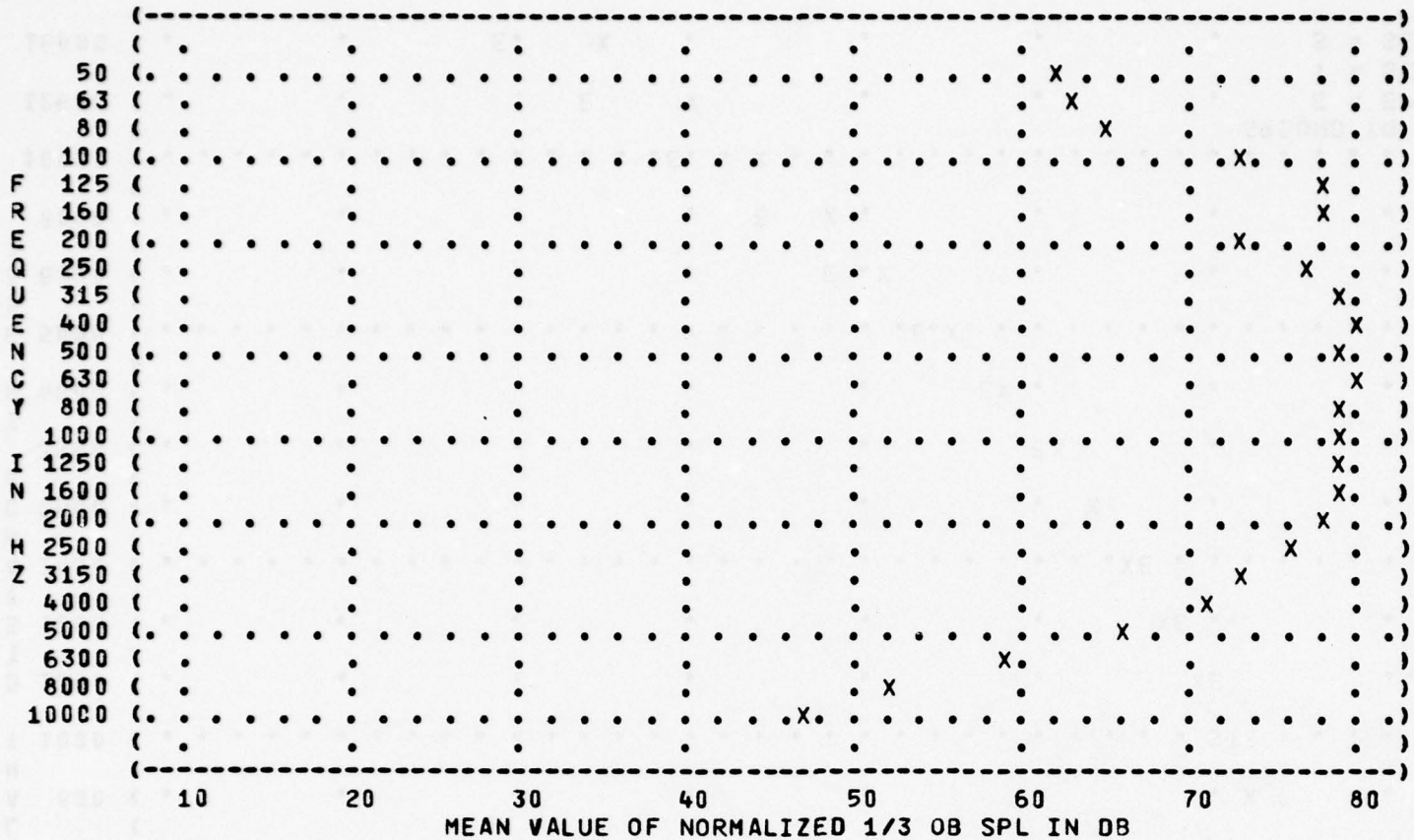
A/C CODE: 508
OPS CODE: 104
PROFILE VER: A
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PAGE M2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	101.9	101.9	114.6	114.6	99.8	100.3	103.1
250	99.8	99.8	112.3	112.3	98.6	99.1	101.8
315	97.5	97.5	110.0	110.0	97.4	97.9	100.5
400	95.3	95.3	107.6	107.6	96.1	96.6	99.1
500	92.9	92.9	105.0	105.0	94.8	95.3	97.6
630	90.5	90.5	102.4	102.4	93.4	93.9	95.9
800	88.1	88.1	99.7	99.7	91.9	92.4	94.2
1000	85.5	85.5	96.9	96.9	90.4	90.9	92.4
1250	82.9	82.9	94.0	94.0	88.7	89.2	90.5
1600	80.1	80.1	90.8	90.8	86.9	87.4	88.3
2000	77.2	77.2	87.5	87.5	85.0	85.5	86.0
2500	74.0	74.0	83.8	83.8	82.9	83.4	83.3
3150	70.7	70.7	79.8	79.8	80.5	81.0	80.3
4000	67.0	67.0	75.4	75.4	77.8	78.2	76.8
5000	62.8	62.8	70.5	70.5	74.7	75.0	72.8
6300	58.3	58.3	65.1	65.1	71.2	71.4	68.3
8000	53.8	53.8	59.6	59.6	67.7	67.8	63.7
10000	49.0	49.0	54.1	54.1	63.8	63.8	59.1
12500	43.7	43.7	48.3	48.3	59.6	59.6	54.4
16000	38.1	38.1	41.6	41.6	55.0	55.0	48.6
20000	32.0	32.0	33.7	33.7	49.8	49.8	41.7
25000	25.3	25.3	23.2	23.2	44.2	44.2	32.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-140 CRUISE POWER
89 % RPM 1.66 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-508-104-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB


C-140 CRUISE POWER
89 % RPM 1.66 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-508-104-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL



C-140 APPROACH POWER 79.5 % RPM 1.37 EPR

AIRSPEED = 115 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-508-105-170276

PNLT = 100.2 PNDB
PNL = 100.2 PNDB
ALT = 88.3 DBA
AL = 88.3 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-140

OPERATION:
APPROACH POWER
79.5 % RPM 1.37 EPR
AIRSPEED = 115 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 508
OPS CODE: 105
PROFILE VER: A
17 FEB 76
PAGE H3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	76	77	79	88	93	92	87	92	93	95	93	94	94	94	94	95	95	93	92	91	87	83	82	83
250	74	75	77	86	91	90	85	90	91	93	91	92	92	92	92	93	93	91	90	88	85	81	79	80
315	72	73	75	83	89	88	83	88	89	91	89	90	90	90	90	91	91	88	87	86	82	78	75	76
400	70	71	73	81	87	86	81	86	87	88	87	88	88	88	88	89	88	86	85	83	79	75	72	72
500	68	69	71	79	84	84	79	84	85	86	85	86	86	86	86	86	86	84	82	81	77	71	68	67
630	66	67	69	77	82	82	77	82	83	84	83	84	83	84	84	84	84	81	79	78	73	68	63	61
800	64	65	67	75	80	80	75	79	81	82	81	82	81	81	81	82	81	78	77	74	70	64	58	55
1000	62	63	65	73	78	78	73	77	79	80	79	80	79	79	79	79	78	76	73	71	66	59	52	47
1250	59	61	63	71	76	76	71	75	77	78	77	77	77	77	76	76	76	72	70	67	61	53	45	38
1600	57	59	61	69	74	74	69	73	74	76	74	75	74	74	74	74	73	69	66	62	56	47	37	27
2000	55	57	59	67	72	72	67	71	72	74	72	73	72	71	71	71	69	65	62	57	51	40	27	13
2500	53	55	57	65	70	70	65	69	70	71	70	70	69	69	68	67	66	61	57	51	44	31	15	
3150	51	53	55	63	68	67	63	67	68	69	67	67	66	66	65	64	62	57	51	44	36	20	1	
4000	49	51	53	61	66	65	60	64	65	66	64	65	63	62	61	60	57	51	45	35	26	8		
5000	47	49	51	59	64	63	58	62	63	64	62	62	60	59	57	55	52	45	37	25	15			
6300	45	46	49	57	61	61	56	59	60	61	59	58	56	55	53	50	46	37	28	13	1			
8000	43	44	46	54	59	58	53	57	57	58	55	55	53	50	48	44	39	29	16					
10000	41	42	44	52	57	56	51	54	55	55	52	51	48	45	42	37	30	18	3					
12500	39	40	42	50	54	53	48	51	51	51	48	47	43	39	35	29	20	5						
16000	36	38	40	47	52	50	45	48	48	47	44	41	37	32	27	18	8							
20000	34	35	37	45	49	47	42	44	44	43	38	36	30	24	17	6								
25000	32	33	34	42	46	44	38	40	40	38	33	29	22	14	5									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-140

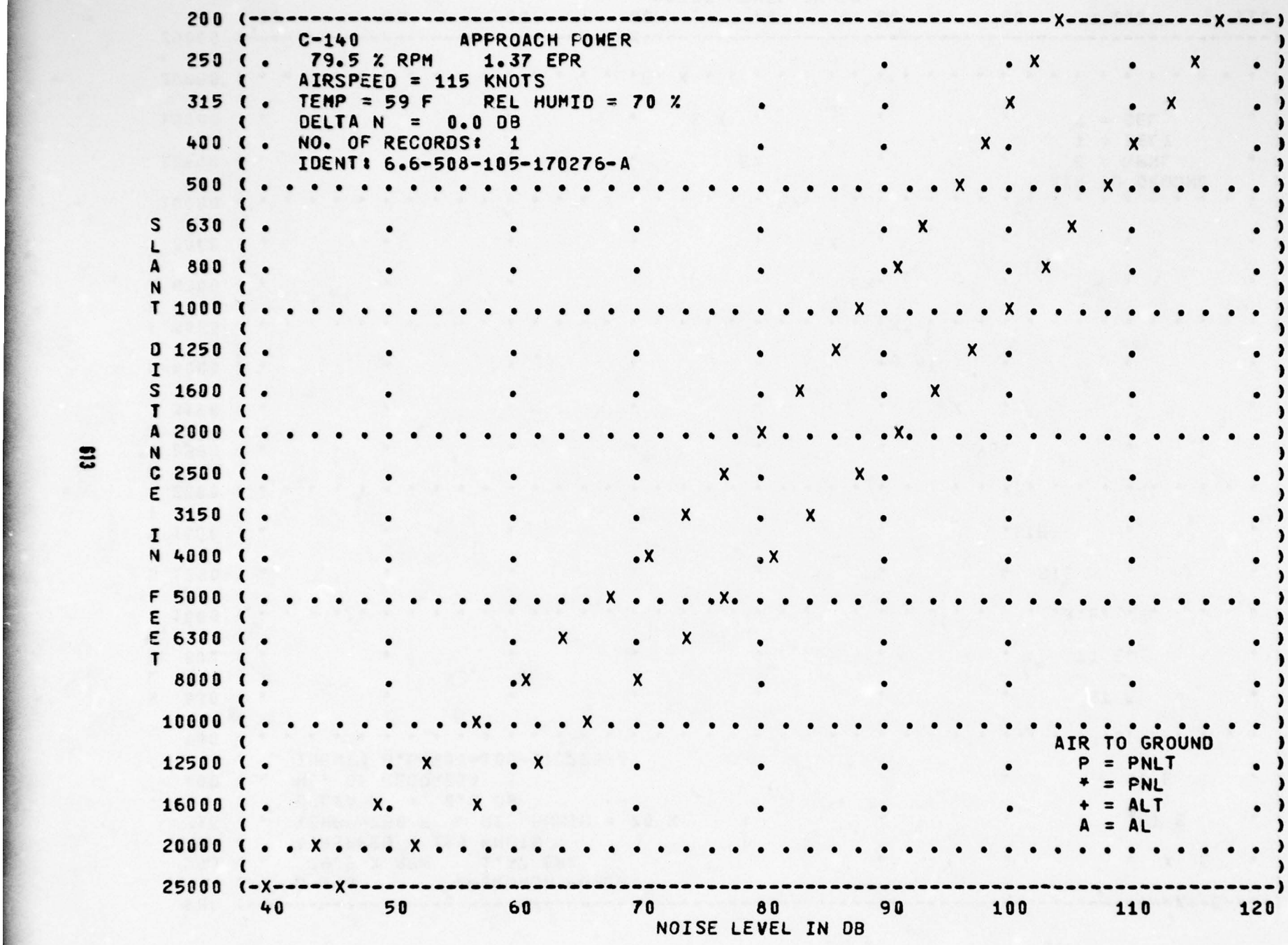
OPERATION:
APPROACH POWER
79.5 % RPM 1.37 EPR
AIRSPEED = 115 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 508
OPS CODE: 105
PROFILE VER: A
17 FEB 76
PAGE I3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	104.4	104.4	117.1	117.1	103.7	104.4	106.9
250	102.3	102.3	114.9	114.9	102.5	103.2	105.7
315	100.1	100.1	112.6	112.6	101.3	102.0	104.5
400	97.8	97.8	110.3	110.3	100.1	100.8	103.2
500	95.6	95.6	107.9	107.9	98.8	99.5	101.8
630	93.2	93.2	105.4	105.4	97.5	98.2	100.3
800	90.8	90.8	102.9	102.9	96.1	96.8	98.7
1000	88.3	88.3	100.2	100.2	94.6	95.3	97.0
1250	85.8	85.8	97.3	97.3	93.0	93.7	95.2
1600	83.1	83.1	94.3	94.3	91.4	92.1	93.1
2000	80.3	80.3	91.1	91.1	89.6	90.3	91.0
2500	77.4	77.4	87.7	87.7	87.7	88.4	88.6
3150	74.4	74.4	84.2	84.2	85.7	86.4	86.0
4000	71.2	71.2	80.7	80.7	83.5	84.1	83.4
5000	67.9	67.9	77.3	77.3	81.2	81.6	80.8
6300	64.4	64.4	73.7	73.7	78.7	79.0	78.1
8000	60.8	60.8	70.0	70.0	76.1	76.2	75.3
10000	57.0	57.0	66.0	66.0	73.3	73.3	72.2
12500	53.0	53.0	61.8	61.8	70.3	70.3	69.0
16000	48.9	48.9	57.2	57.2	67.1	67.1	65.4
20000	44.5	44.5	52.2	52.2	63.8	63.8	61.3
25000	39.9	39.9	46.3	46.3	60.2	60.2	56.4

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-140 APPROACH POWER
79.5 % RPM 1.37 EPR
AIRSPEED = 115 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-508-105-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

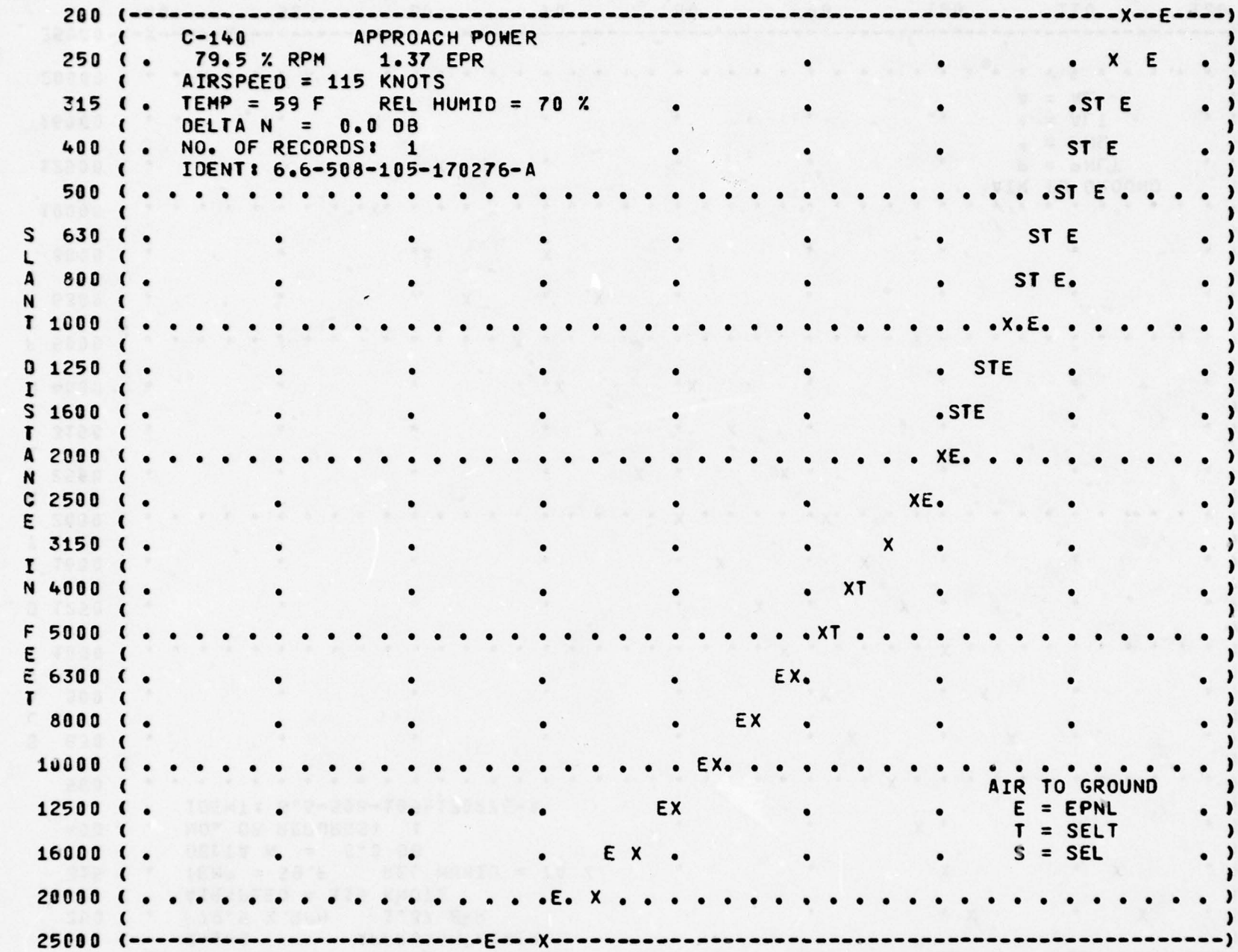

C-140 APPROACH POWER
79.5 % RPM 1.37 EPR
AIRSPEED = 115 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-508-105-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB
AIR TO GROUND
E = EPNL
T = SELT
S = SEL

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-140

OPERATION:
APPROACH POWER
79.5 % RPM 1.37 EPR
AIRSPEED = 115 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 508
OPS CODE: 105
PROFILE VER: A
17 FEB 76
PAGE L3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	71	72	74	83	88	87	82	87	88	90	88	89	89	89	89	90	90	88	87	86	82	78	77	78
250	69	70	72	81	86	85	80	85	86	88	86	87	87	87	87	88	88	86	85	83	80	76	74	75
315	67	68	70	78	84	83	78	83	84	86	84	85	85	85	85	86	86	83	82	81	77	73	70	71
400	65	66	68	76	82	81	76	81	82	83	82	83	83	83	83	84	83	81	80	78	74	70	67	67
500	63	64	66	74	79	78	74	78	80	81	80	81	81	81	81	81	81	79	77	76	72	66	63	62
630	61	62	64	72	77	76	73	76	78	79	78	79	78	79	79	79	79	76	74	73	68	63	58	56
800	59	60	62	70	74	73	68	73	76	77	76	77	76	76	76	77	76	73	72	69	65	59	53	50
1000	57	58	60	67	71	70	65	70	74	75	74	75	74	74	74	74	73	71	68	66	61	54	47	42
1250	54	56	57	64	68	67	62	67	71	73	72	72	72	72	71	71	71	67	65	62	56	48	40	33
1600	52	53	54	61	65	64	59	63	67	71	69	70	69	69	69	69	68	64	61	57	51	42	32	22
2000	49	49	50	57	61	60	55	60	64	69	67	68	67	66	66	66	64	60	57	52	46	35	22	8
2500	46	45	46	53	56	55	51	55	60	65	64	65	64	64	63	62	61	56	52	46	39	26	10	
3150	42	41	41	48	52	50	46	50	55	61	61	62	61	61	60	59	57	52	46	39	31	15		
4000	37	36	36	42	46	45	40	44	50	56	57	59	58	57	56	55	52	46	40	30	21	3		
5000	32	31	31	37	41	40	35	39	44	50	53	55	55	54	52	50	47	40	32	20	10			
6300	27	26	27	33	36	35	30	34	38	45	49	50	50	50	48	45	41	32	23	8				
8000	25	24	24	30	34	33	28	32	35	42	45	47	47	45	43	39	34	24	11					
10000	23	22	22	28	32	30	25	29	33	39	42	43	42	40	37	32	25	13						
12500	21	20	20	26	29	28	22	26	29	35	38	39	37	34	30	24	15	0						
16000	18	18	18	23	27	25	19	23	26	31	34	33	31	27	22	13	3							
20000	16	15	15	21	24	22	16	19	22	27	28	28	24	19	12	1								
25000	14	13	12	18	21	19	12	15	18	22	23	21	16	9										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-140

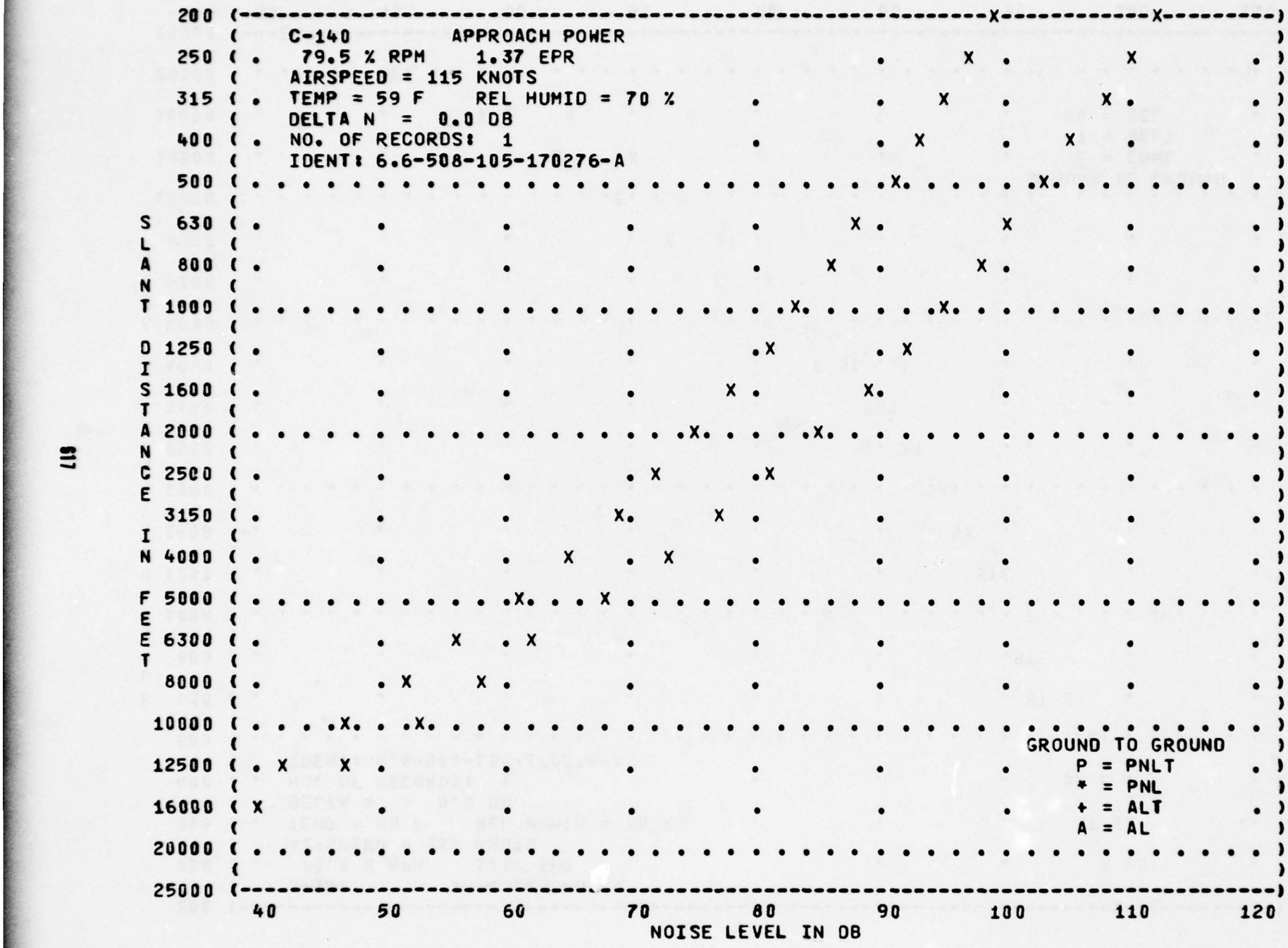
OPERATION:
APPROACH POWER
79.5 % RPM 1.37 EPR
AIRSPEED = 115 KNOTS

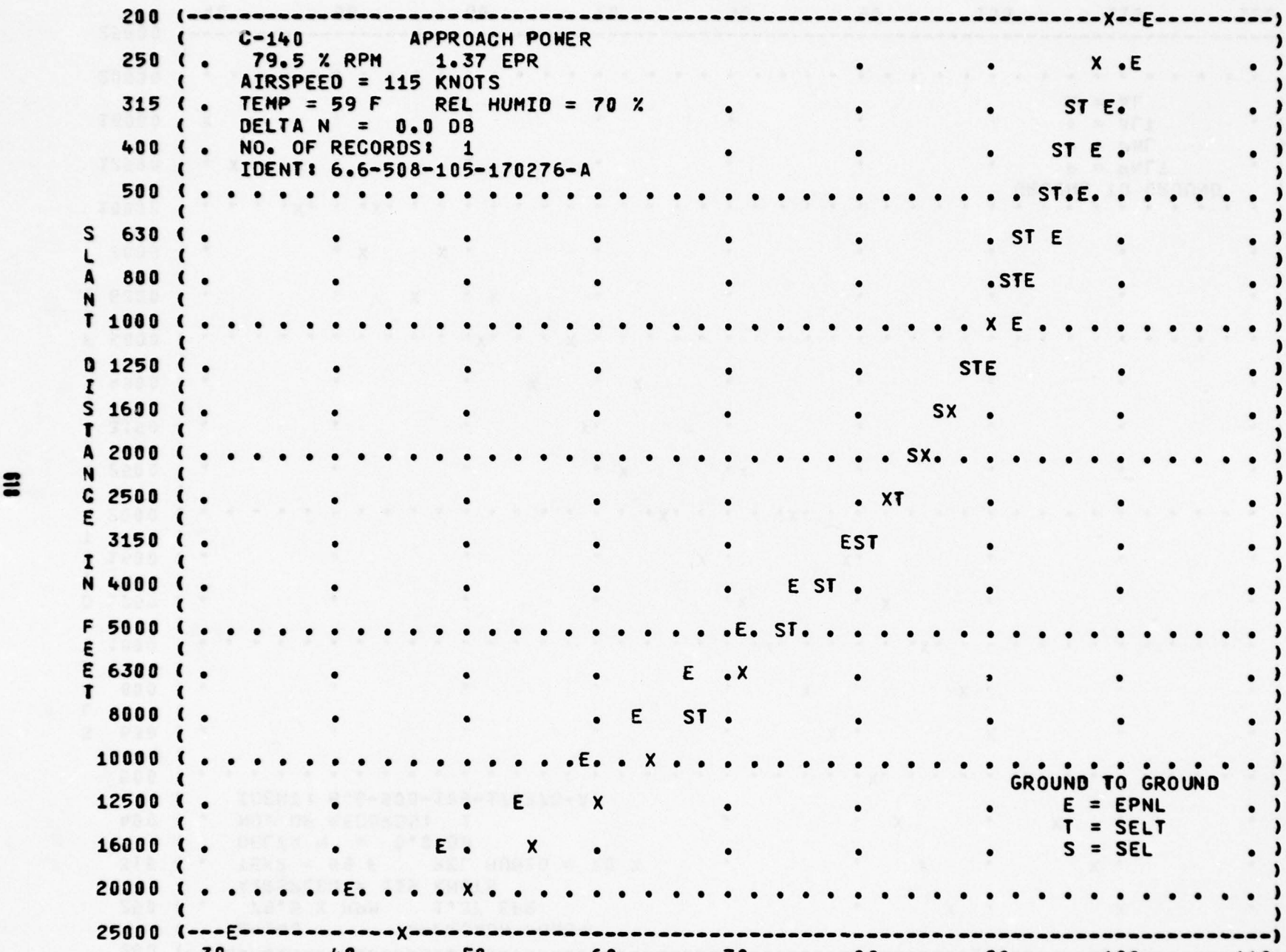
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 508
OPS CODE: 105
PROFILE VER: A
17 FEB 76
PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	99.4	99.4	112.1	112.1	98.7	99.4	101.9
250	97.3	97.3	109.9	109.9	97.5	98.2	100.7
315	95.1	95.1	107.6	107.6	96.3	97.0	99.5
400	92.8	92.8	105.3	105.3	95.1	95.8	98.1
500	90.6	90.6	102.9	102.9	93.8	94.5	96.7
630	88.2	88.2	100.3	100.3	92.5	93.2	95.2
800	85.8	85.8	97.7	97.7	91.1	91.8	93.5
1000	83.3	83.3	94.8	94.8	89.6	90.3	91.7
1250	80.7	80.7	91.8	91.8	88.0	88.7	89.7
1600	78.0	78.0	88.6	88.6	86.2	86.9	87.4
2000	75.1	75.1	85.2	85.2	84.4	85.1	85.0
2500	72.0	72.0	81.4	81.4	82.3	83.0	82.2
3150	68.7	68.7	77.2	77.2	80.0	80.7	79.1
4000	65.0	65.0	72.7	72.7	77.3	77.9	75.4
5000	60.9	60.9	67.8	67.8	74.2	74.6	71.4
6300	56.4	56.4	62.3	62.3	70.7	71.0	66.7
8000	52.1	52.1	57.7	57.7	67.4	67.5	62.9
10000	47.4	47.4	52.7	52.7	63.7	63.7	58.8
12500	42.4	42.4	46.7	46.7	59.6	59.6	53.9
16000	36.9	36.9	40.0	40.0	55.2	55.2	48.1
20000	30.9	30.9	32.3	32.3	50.2	50.2	41.5
25000	24.4	24.4	21.5	21.5	44.7	44.7	31.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-140 APPROACH POWER
79.5 % RPM 1.37 EPR
AIRSPEED = 115 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-508-105-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


C-140 APPROACH POWER
79.5 % RPM 1.37 EPR
AIRSPEED = 115 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-508-105-170276-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

USAF C-140 AIRCRAFT C-140 AIRCRAFT C-140 AIRCRAFT C-140 AIRCRAFT USAF

NOISE PRODUCED ON THE GROUND BY

C-140 AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 76-508-001
AIRCRAFT CODE: 508
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING	PAGE
IDLE - 41% RPM	620 - 625
75% RPM	626 - 631
85% RPM	632 - 637
MIL PWR - 100% RPM	638 - 643

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
- NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
- PERCEIVED NOISE LEVEL
- TONE-CORRECTED, PERCEIVED NOISE LEVEL
- A-WEIGHTED OVERALL SOUND LEVEL
- TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF C-140 AIRCRAFT C-140 AIRCRAFT C-140 AIRCRAFT C-140 AIRCRAFT USAF

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 01
AIRCRAFT CODE 508
OPERATION CODE 02013
PROFILE VERSION A
25 MAY 76
PAGE C1

NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. J60-P-5
GROUND RUNUP

OPERATION:
IDLE, C-140
SINGLE ENGINE, 41% RPM
EST. T-39 +0.0DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	56	57	56	56	57	57	57	60	62	62	62	63	65	64	65	63	65	62	65
63	58	58	60	60	59	61	61	63	63	64	65	65	67	67	67	67	67	61	66
80	61	62	63	68	62	65	64	66	65	65	67	67	66	68	68	67	70	60	68
100	65	67	67	71	65	66	67	70	69	67	68	68	69	70	71	69	71	58	68
125	66	66	68	67	62	64	64	67	64	63	65	65	64	66	67	65	69	51	62
160	63	64	64	65	60	56	56	59	59	58	59	59	60	62	64	62	66	51	59
200	65	65	66	65	56	56	56	56	56	57	58	56	57	58	59	58	61	48	53
250	62	65	65	60	57	59	57	58	60	61	61	60	59	59	60	57	60	49	54
315	65	68	63	63	60	60	58	58	59	59	56	58	61	62	63	57	61	48	53
400	64	65	62	63	60	60	57	57	58	59	55	58	60	62	66	59	61	48	53
500	62	65	60	62	58	58	57	58	62	64	58	61	63	61	65	63	59	49	53
630	63	63	61	61	57	56	55	55	58	58	55	58	60	59	61	57	58	48	52
800	63	63	62	61	59	58	57	58	61	61	56	60	58	55	59	52	56	44	49
1000	73	71	68	69	66	65	62	64	64	64	60	63	60	58	61	55	63	48	52
1250	76	74	72	75	72	72	64	69	68	67	59	64	59	59	62	57	66	50	58
1600	68	68	69	68	65	63	56	62	62	61	57	60	56	55	60	53	59	47	53
2000	66	66	68	67	62	61	55	61	60	60	55	58	56	54	58	52	58	49	54
2500	75	75	74	72	68	69	62	69	65	63	56	61	55	56	60	56	59	46	50
3150	73	71	70	69	67	66	58	62	61	61	56	58	51	53	58	52	58	42	48
4000	72	73	71	71	67	68	59	63	62	62	57	59	52	55	58	51	58	43	49
5000	75	80	77	77	71	73	63	67	65	62	56	59	52	55	58	54	58	44	49
6300	72	76	74	73	69	67	59	63	61	59	53	58	51	53	55	51	56	41	45
8000	75	78	73	73	69	69	59	64	63	61	55	58	51	54	56	50	55	41	47
10000	69	68	67	67	66	64	55	58	56	60	55	58	51	52	54	47	49	36	43
OVERALL	84	86	83	84	79	80	74	78	77	76	75	76	75	76	78	75	78	67	74

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. J60-P-5
GROUND RUNUP

OPERATION:
IDLE, C-140
SINGLE ENGINE, 41% RPM
EST. T-39 +0.0DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 01
AIRCRAFT CODE 508
OPERATION CODE 02013
PROFILE VERSION A
25 MAY 76
PAGE D1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	99.7	102.1	99.9	99.8	94.8	95.9	88.0	92.4	91.1	89.8	85.2	87.7	83.8	84.8	87.8	83.5	87.4	74.3	80.1
250	97.3	99.7	97.4	97.4	92.4	93.5	85.6	90.1	88.7	87.4	82.9	85.4	81.6	82.5	85.6	81.2	85.1	72.0	77.9
315	94.9	97.2	94.9	94.9	89.9	91.0	83.1	87.8	86.3	85.0	80.4	83.1	79.2	80.2	83.2	78.8	82.8	69.6	75.5
400	92.5	94.5	92.3	92.3	87.2	88.3	80.6	85.3	83.9	82.4	77.9	80.6	75.8	77.7	80.8	76.4	80.4	67.2	73.1
500	89.9	91.7	89.5	89.5	84.5	85.6	78.1	82.8	81.3	79.8	75.2	78.1	74.2	75.2	78.2	73.9	77.8	64.5	70.6
630	87.2	88.7	86.5	86.5	81.5	82.5	75.3	80.1	78.6	77.1	72.4	75.3	71.6	72.5	75.6	71.2	75.2	61.8	68.0
800	84.3	85.5	83.3	83.3	78.2	79.3	72.5	77.2	75.8	74.2	69.5	72.5	68.8	69.7	72.8	68.4	72.4	59.0	65.2
1000	81.2	82.0	80.2	79.8	75.0	75.8	69.4	74.1	72.7	71.2	66.4	69.4	65.9	66.7	69.8	65.4	69.4	55.8	62.2
1250	77.9	78.2	76.8	76.0	71.6	72.0	66.1	70.9	69.4	67.9	63.0	66.2	62.9	63.4	66.6	62.1	66.3	52.3	58.8
1500	74.3	74.5	73.2	72.4	68.0	68.4	62.5	67.3	65.9	64.4	59.4	62.5	59.7	59.9	63.3	58.7	62.9	48.1	55.1
2000	70.5	70.6	69.3	68.5	64.1	64.4	58.5	63.3	62.0	60.6	55.4	58.7	56.3	56.5	60.0	55.2	59.4	43.3	51.1
2500	66.2	66.3	64.9	64.2	60.0	60.0	53.9	59.1	57.7	56.7	50.6	54.3	52.4	51.9	55.9	51.2	55.3	38.1	46.2
3150	61.5	61.5	60.1	59.8	55.5	55.5	48.6	54.0	53.0	52.1	45.4	49.5	47.3	46.8	51.4	46.1	50.8	31.9	40.4
4000	56.3	55.9	54.5	54.9	50.9	50.8	43.0	48.4	48.1	47.1	39.4	44.0	42.1	40.9	45.7	40.4	45.0	24.5	34.9
5000	51.2	50.0	48.2	49.7	45.6	45.3	37.1	42.6	42.3	41.5	33.6	38.3	36.4	34.9	40.1	34.1	39.6	9.0	27.7
6300	45.2	43.7	41.7	43.7	39.3	39.0	29.9	35.1	35.9	35.3	24.7	31.5	29.5	26.7	33.6	26.2	32.9		13.5
8000	38.6	37.0	34.9	37.0	31.8	31.2	18.6	28.6	28.5	27.7	15.3	21.9	21.0	18.2	27.0	18.3	23.7		
10000	30.2	28.7	24.8	28.6	21.1	21.0	7.4	15.9	17.2	17.6	5.8	10.2	11.0	8.0	18.2	11.0	9.8		
12500	17.1	14.8	7.3	14.8	10.3	10.7		3.3	6.0	7.5			1.0		8.9	3.8			
16000	4.0	1.0		.9		.5													
20000																			
25000																			

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. JT8D-P-5
GROUND RUNUP

OPERATION:
IDLE, C-140
SINGLE ENGINE, 41% RPM
EST. T-39 +0.0D3

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 01
AIRCRAFT CODE 508
OPERATION CODE 02013
PROFILE VERSION A
25 MAY 76
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	101.9	103.9	101.5	102.2	97.0	98.4	90.0	94.8	92.8	91.5	86.3	88.9	84.5	85.3	88.5	85.1	89.2	74.3	81.7
250	99.5	101.4	99.2	99.8	94.6	96.0	87.6	92.5	90.4	89.2	83.9	86.5	82.2	83.6	86.2	82.8	86.9	72.0	79.5
315	97.1	98.9	96.7	97.3	92.1	93.5	85.1	90.1	88.1	85.7	81.5	84.2	79.8	81.2	83.8	80.4	84.6	69.6	77.1
400	94.7	96.3	94.1	94.6	89.5	90.9	82.7	87.7	85.6	84.2	78.9	81.7	77.4	78.8	81.4	78.0	82.1	67.2	74.7
500	92.1	93.5	91.3	91.9	86.7	88.1	80.1	85.1	83.1	81.6	76.3	79.2	74.9	76.3	78.9	75.4	79.6	64.6	72.2
630	89.3	90.4	88.3	88.9	83.7	85.1	77.4	82.4	80.4	78.9	73.5	76.5	72.2	73.6	76.2	72.8	76.9	61.8	69.6
800	86.4	87.2	85.1	85.7	80.4	81.8	74.5	79.6	77.5	76.0	70.6	73.6	69.4	70.8	73.4	70.0	74.1	59.0	66.8
1000	83.4	83.7	81.9	82.2	77.2	78.3	71.4	76.5	74.5	72.9	67.5	70.6	66.5	67.8	70.5	67.0	71.2	55.8	63.8
1250	80.1	79.9	78.6	78.4	73.8	74.6	68.1	73.2	71.2	69.6	64.1	67.3	63.5	64.5	67.2	63.7	68.1	52.3	60.4
1600	76.5	76.2	75.0	74.8	70.2	70.9	64.5	69.6	67.7	65.1	60.4	63.6	60.3	61.0	63.9	60.3	64.7	48.1	56.7
2000	72.6	72.3	71.1	70.9	66.3	67.0	60.6	65.7	63.8	62.3	56.5	59.8	56.9	57.5	60.6	56.7	61.1	43.3	52.7
2500	68.4	68.0	66.7	66.6	62.3	62.5	55.9	61.4	59.5	58.4	51.7	55.4	53.0	53.0	56.5	52.7	57.1	38.1	47.8
3150	63.6	63.2	61.9	62.1	57.7	58.0	50.6	56.3	54.7	53.9	46.4	50.6	47.9	47.9	52.0	47.7	52.5	31.9	42.0
4000	58.1	57.3	55.9	56.8	52.7	52.8	44.6	50.3	49.5	48.5	40.2	44.9	42.6	41.7	46.2	41.7	46.4	24.5	36.2
5000	52.5	51.0	49.3	51.1	46.9	46.8	38.3	44.0	43.3	42.5	34.2	38.9	36.7	35.6	40.4	35.1	40.7	9.0	28.7
6300	46.1	44.4	42.4	44.6	40.2	40.0	30.7	37.0	36.6	36.0	25.1	32.0	29.8	27.1	33.9	26.8	33.6		14.1
8000	39.1	37.3	35.3	37.5	32.3	31.7	19.0	29.0	28.8	28.1	15.5	22.1	21.1	18.4	27.2	18.6	24.1		
10000	30.2	28.7	24.8	28.6	21.1	21.0	7.4	15.9	17.2	17.6	5.8	10.2	11.0	8.0	18.2	11.0	9.8		
12500	17.1	14.8	7.3	14.8	10.3	10.7		3.3	6.0	7.5			1.0		8.9	3.8			
16000	4.0	1.0		.9		.5													
20000																			
25000																			

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. J60-P-5
GROUND RUNUP

OPERATION:
IDLE, C-140
SINGLE ENGINE, 41% RPM
EST. T-39 +0.0DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 01
AIRCRAFT CODE 508
OPERATION CODE 02013
PROFILE VERSION A
25 MAY 76
PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	86.6	87.9	85.6	85.6	81.4	81.7	73.9	78.4	77.4	76.3	70.8	73.9	70.6	70.7	73.9	69.0	73.8	60.5	66.2
250	84.3	85.5	83.2	83.2	79.0	79.4	71.6	76.2	75.1	74.0	68.6	71.7	68.5	68.5	71.7	66.8	71.7	58.3	64.0
315	81.8	82.9	80.7	80.7	76.5	76.9	69.3	73.8	72.8	71.7	66.3	69.4	66.3	66.3	69.5	64.6	69.5	56.1	61.8
400	79.3	80.2	78.2	78.2	74.0	74.4	66.9	71.4	70.4	69.4	64.0	67.1	64.1	64.0	67.3	62.4	67.2	53.9	59.6
500	76.8	77.5	75.5	75.6	71.4	71.7	64.4	68.9	68.0	67.0	61.6	64.7	61.9	61.7	65.0	60.1	64.9	51.6	57.3
630	74.1	74.6	72.7	72.8	68.7	69.0	61.9	66.4	65.5	64.5	59.2	62.3	59.6	59.4	62.7	57.7	62.5	49.2	55.0
800	71.4	71.6	69.8	70.0	66.0	66.2	59.3	63.8	62.9	62.0	56.6	59.8	57.3	57.0	60.3	55.3	60.1	46.8	52.6
1000	68.5	68.4	66.8	67.1	63.1	63.3	56.6	61.1	60.3	59.4	54.1	57.2	54.9	54.5	57.8	52.9	57.6	44.3	50.1
1250	65.6	65.2	63.7	64.1	60.2	60.3	53.8	58.2	57.5	56.7	51.4	54.5	52.4	51.9	55.2	50.3	54.9	41.7	47.4
1600	62.6	61.9	60.5	61.0	57.2	57.2	51.0	55.3	54.7	54.0	48.6	51.8	49.8	49.3	52.6	47.7	52.2	39.0	44.7
2000	59.5	58.5	57.1	57.8	54.1	54.0	48.0	52.2	51.7	51.1	45.7	48.9	47.1	46.5	49.9	45.0	49.4	36.2	41.8
2500	56.2	55.0	53.6	54.5	50.9	50.7	44.8	48.9	48.6	48.1	42.6	45.9	44.2	43.4	46.8	42.0	46.3	33.1	38.5
3150	52.7	51.3	49.9	51.0	47.4	47.2	41.5	45.4	45.2	44.8	39.3	42.6	40.9	40.0	43.4	38.6	42.9	29.7	35.2
4000	48.9	47.5	46.0	47.3	43.7	43.5	37.9	41.7	41.6	41.2	35.7	39.0	37.3	36.3	39.7	34.8	39.3	26.0	31.5
5000	44.9	43.3	41.8	43.2	39.7	39.4	33.9	37.6	37.6	37.2	31.7	35.0	33.3	32.1	35.6	30.7	35.3	21.9	27.4
6300	40.5	38.8	37.2	38.8	35.3	35.0	29.6	33.1	33.2	32.9	27.4	30.7	28.9	27.7	31.1	26.3	30.9	17.5	22.9
8000	35.7	34.1	32.2	33.9	30.4	30.1	25.1	28.3	28.6	28.4	23.1	26.4	24.9	23.8	27.1	22.4	26.5	13.2	18.5
10000	30.4	28.9	26.9	28.5	25.0	24.7	20.1	23.0	23.6	23.6	18.4	21.6	20.6	19.5	22.9	18.4	21.5	8.7	13.7
12500	24.4	23.2	20.9	22.4	18.9	18.6	14.6	17.1	18.1	18.3	13.3	16.4	16.0	14.9	18.3	14.0	16.2	3.8	8.6
16000	17.7	16.9	14.4	15.7	12.2	11.9	8.6	10.6	12.2	12.6	7.9	10.8	10.9	10.1	13.4	9.4	10.6		3.5
20000	10.4	10.3	7.6	8.6	5.0	4.7	2.3	3.9	5.9	6.6	2.3	4.8	5.5	4.9	8.1	4.3	4.8		
25000	2.8	3.5	.8	1.6						.3					2.5				

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. J60-P-5
GROUND RUNUP

OPERATION:
IDLE, C-140
SINGLE ENGINE, 41% RPM
EST. T-39 +0.0DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 01
AIRCRAFT CODE 508
OPERATION CODE 02013
PROFILE VERSION A
25 MAY 76
PAGE G1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	88.8	89.6	87.4	87.9	83.6	84.3	75.9	80.8	79.1	78.0	71.9	75.0	71.3	71.7	74.6	70.5	75.6	60.5	67.8
250	86.4	87.2	85.0	85.6	81.2	81.9	73.7	78.5	76.9	75.8	69.6	72.8	69.1	69.5	72.4	68.4	73.4	58.3	65.6
315	84.0	84.6	82.5	83.1	78.7	79.4	71.3	76.1	74.5	73.5	67.4	70.5	67.0	67.3	70.2	66.2	71.2	56.1	63.4
400	81.5	82.0	80.0	80.6	76.2	76.9	68.9	73.7	72.2	71.1	65.0	68.2	64.8	65.1	67.9	63.9	69.0	53.9	61.2
500	78.9	79.2	77.3	77.9	73.6	74.3	66.5	71.3	69.7	68.7	62.7	65.8	62.5	62.8	65.6	61.7	66.7	51.6	58.9
630	76.3	76.3	74.5	75.2	71.0	71.6	63.9	68.7	67.2	66.3	60.2	63.4	60.3	60.4	63.3	59.3	64.3	49.2	56.6
800	73.5	73.3	71.6	72.4	68.2	68.7	61.3	66.1	64.7	63.8	57.7	60.9	57.9	58.0	60.9	56.9	61.9	46.8	54.2
1000	70.7	70.2	68.6	69.5	65.4	65.8	58.6	63.4	62.0	61.2	55.1	58.3	55.5	55.6	58.4	54.5	59.3	44.3	51.7
1250	67.8	66.9	65.5	66.5	62.4	62.8	55.8	60.6	59.3	58.5	52.4	55.7	53.0	53.0	55.9	51.9	56.7	41.7	49.0
1600	64.8	63.6	62.2	63.4	59.4	59.7	53.0	57.6	56.4	55.8	49.6	52.9	50.4	50.3	53.3	49.3	54.0	39.0	46.3
2000	61.6	60.2	58.9	60.2	56.3	56.5	50.0	54.5	53.5	52.9	46.8	50.0	47.7	47.5	50.5	46.6	51.1	36.2	43.4
2500	58.3	56.7	55.4	56.9	53.1	53.2	46.8	51.3	50.3	49.8	43.7	47.0	44.8	44.5	47.5	43.6	48.0	33.1	40.2
3150	54.8	53.1	51.7	53.4	49.6	49.7	43.5	47.6	47.0	46.5	40.3	43.7	41.6	41.1	44.1	40.2	44.7	29.7	36.8
4000	50.7	48.9	47.4	49.2	45.5	45.5	39.5	43.6	43.0	42.6	36.5	39.9	37.8	37.2	40.2	36.1	40.7	26.0	32.8
5000	46.2	44.4	42.8	44.6	41.0	41.0	35.1	39.0	38.6	38.3	32.3	35.7	33.7	32.8	35.9	31.6	36.4	21.9	28.3
6300	41.4	39.5	37.9	39.7	36.1	36.0	30.4	34.1	33.9	33.6	27.8	31.2	29.2	28.2	31.4	26.9	31.7	17.5	23.6
8000	36.2	34.5	32.6	34.4	30.9	30.6	25.5	28.8	29.0	28.8	23.3	26.6	25.1	24.0	27.3	22.8	26.8	13.2	18.8
10000	30.4	28.9	26.9	28.5	25.0	24.7	20.1	23.0	23.6	23.6	18.4	21.6	20.6	19.5	22.9	18.4	21.5	8.7	13.7
12500	24.4	23.2	20.9	22.4	18.9	18.6	14.6	17.1	18.1	18.3	13.3	16.4	16.0	14.9	18.3	14.0	16.2	3.8	8.6
16000	17.7	16.9	14.4	15.7	12.2	11.9	8.6	10.6	12.2	12.6	7.9	10.8	10.9	10.1	13.4	9.4	10.6		3.5
20000	10.4	10.3	7.6	8.6	5.0	4.7	2.3	3.9	5.9	6.6	2.3	4.8	5.5	4.9	8.1	4.3	4.8		
25000	2.8	3.5	.8	1.6						.3					2.5				

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. J60-P-5
GROUND RUNUP

OPERATION:
IDLE, C-140
SINGLE ENGINE, 41% RPM
EST. T-39 +0.0DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 01
AIRCRAFT CODE 508
OPERATION CODE 02013
PROFILE VERSION A
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PAGE J1

P=PNLT A=AL T=ALT

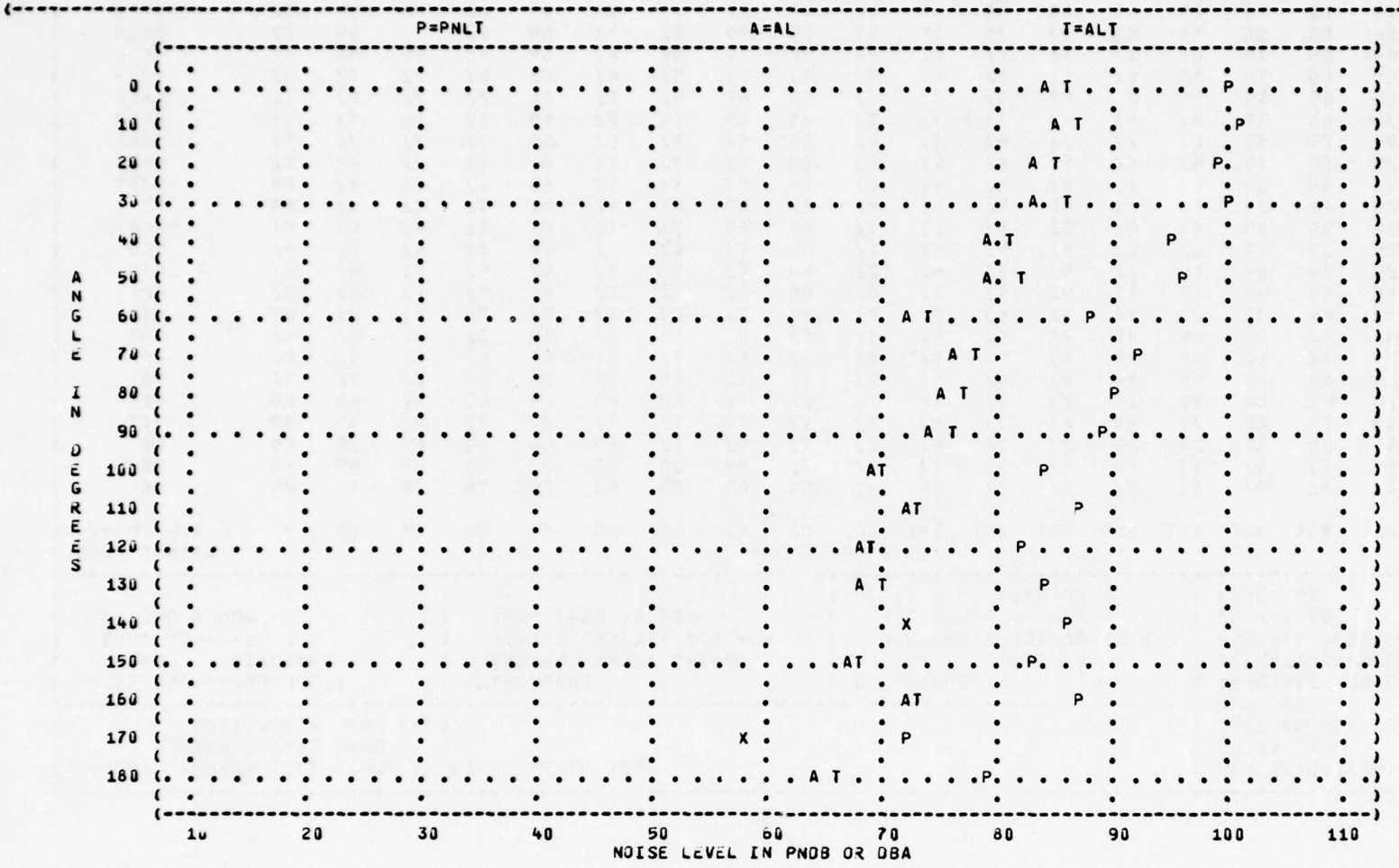


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 02
AIRCRAFT CODE 508
OPERATION CODE 02020
PROFILE VERSION A
25 MAY 76
PAGE C2

NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. J60-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, C-140
SINGLE ENGINE, 75% RPM
EST. T-39 +0.0DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	62	62	63	61	63	64	63	63	66	68	69	71	73	76	78	76	75	70	50
63	65	65	67	66	67	67	67	66	70	70	73	74	76	80	81	79	78	68	48
80	68	67	69	69	69	69	70	70	71	72	75	77	78	82	83	82	80	66	46
100	68	68	71	71	70	71	71	71	73	72	74	77	79	84	87	83	80	66	46
125	69	69	70	69	69	69	69	71	73	72	74	76	77	82	86	82	79	67	47
160	71	70	72	71	70	68	69	71	71	73	74	76	79	84	86	82	80	67	47
200	73	73	75	73	70	71	70	70	71	70	71	73	76	81	84	78	77	64	44
250	74	75	74	72	69	69	68	70	70	72	73	75	77	80	83	75	72	58	38
315	78	76	74	72	70	72	72	71	70	70	73	74	78	80	82	72	68	54	34
400	76	76	73	74	70	72	72	70	69	70	72	75	76	78	81	69	66	54	34
500	74	75	73	74	70	71	71	71	69	72	74	75	76	77	80	68	66	53	33
630	74	75	74	72	70	72	73	71	70	71	75	74	76	78	79	69	67	52	32
800	70	73	72	71	70	71	71	69	69	71	73	74	76	78	79	68	66	52	32
1000	68	71	71	71	70	70	72	69	70	74	74	76	78	77	78	68	67	52	32
1250	68	72	69	71	69	71	71	70	69	73	74	75	78	77	78	67	66	52	32
1600	71	72	70	71	70	71	72	70	69	73	73	75	78	78	76	67	65	52	32
2000	71	72	72	70	69	70	70	70	69	73	75	74	77	77	73	65	63	50	30
2500	71	71	73	70	69	70	68	69	68	71	71	71	74	74	70	61	59	47	27
3150	71	73	72	72	70	71	70	69	66	70	70	70	73	72	69	61	58	48	28
4000	76	76	78	79	78	78	76	73	72	71	72	72	73	73	68	61	59	48	28
5000	85	84	88	90	89	89	86	82	80	73	73	73	71	72	69	61	60	49	29
6300	70	69	71	72	69	71	70	66	63	66	67	67	68	68	64	55	54	45	25
8000	70	68	69	70	68	68	67	63	62	63	64	64	66	64	62	53	53	43	23
10000	73	73	73	72	71	72	72	66	62	63	62	62	62	63	59	52	52	42	22
OVERALL	89	88	90	91	90	90	88	86	85	85	87	88	90	92	95	90	87	76	56

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 02
AIRCRAFT CODE 508
OPERATION CODE 02020
PROFILE VERSION A
25 MAY 76
PAGE D2

NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. J60-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, C-140
SINGLE ENGINE, 75% RPM
EST. T-39 +0.0DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	105.8	105.1	107.7	108.5	107.3	107.6	105.9	102.7	101.4	99.3	100.1	101.2	102.5	103.4	102.5	95.4	93.4	80.2	58.1
250	103.4	102.7	105.3	106.1	104.9	105.2	103.5	100.3	99.0	96.9	97.7	98.9	100.3	101.2	100.3	93.3	91.2	77.8	55.4
315	100.9	100.2	102.8	103.6	102.3	102.6	100.9	97.8	96.5	94.5	95.3	96.5	98.0	99.0	98.1	91.1	88.9	75.5	52.3
400	98.3	97.6	100.2	100.9	99.7	100.0	98.3	95.2	93.9	91.9	92.9	93.9	95.7	96.6	95.8	88.8	86.6	73.0	49.2
500	95.5	94.9	97.4	98.1	96.9	97.2	95.5	92.4	91.2	89.3	90.5	91.3	93.2	94.2	93.4	86.2	84.0	70.4	46.1
630	92.5	91.9	94.4	95.1	93.9	94.2	92.6	89.5	88.3	86.5	87.9	88.5	90.6	91.7	90.9	83.5	81.3	67.6	42.6
800	89.4	88.8	91.2	91.9	90.6	91.0	89.3	86.3	85.1	83.8	85.2	85.7	88.0	89.0	88.3	80.7	78.4	64.7	38.6
1000	85.9	85.3	87.7	88.3	87.1	87.4	85.8	82.9	81.7	80.9	82.3	82.8	85.1	86.1	85.6	77.7	75.4	61.5	33.6
1250	82.1	81.6	83.8	84.4	83.1	83.5	82.0	79.1	78.0	77.8	79.2	79.8	82.1	83.1	82.7	74.4	72.1	58.1	27.2
1600	77.9	77.5	79.5	80.1	78.8	79.2	77.7	75.0	73.9	74.5	76.0	76.5	78.9	79.9	79.7	70.9	68.6	54.2	16.3
2000	73.3	73.0	74.8	75.3	74.0	74.4	73.0	70.4	69.4	70.9	72.4	73.0	75.4	76.4	76.6	67.3	65.1	49.8	5.5
2500	68.1	67.9	69.5	69.9	68.5	69.0	67.8	65.3	64.5	67.0	68.5	69.1	71.5	72.6	72.8	63.3	61.1	44.7	
3150	63.2	63.8	63.6	63.8	62.4	62.9	62.1	60.6	60.0	62.6	64.1	64.8	67.3	68.3	68.7	58.9	56.5	38.9	
4000	58.5	59.2	58.5	57.9	56.2	57.0	57.2	55.8	55.1	57.7	59.3	60.2	62.7	63.7	64.1	53.9	51.3	31.2	
5000	53.2	54.0	53.0	52.4	50.4	51.5	51.9	49.9	49.1	52.4	53.8	54.9	57.6	58.5	59.1	48.2	45.4	22.7	
6300	46.9	48.0	46.7	46.0	43.7	44.9	45.5	43.4	42.4	46.6	48.1	49.2	52.0	53.1	54.0	42.0	38.9	14.1	
8000	41.9	42.8	41.3	40.4	37.9	39.5	40.3	38.1	37.1	40.7	42.7	43.6	46.1	47.9	49.5	36.5	33.1	5.6	
10000	35.9	37.0	35.2	34.7	31.1	33.2	34.2	31.5	30.3	33.9	37.0	37.8	40.2	42.1	44.5	29.1	24.7		
12500	28.8	30.1	27.8	27.8	22.8	25.1	26.5	23.9	21.4	26.1	29.8	31.0	33.8	35.5	38.9	18.7	14.1		
16000	20.0	21.8	19.3	18.5	11.5	14.4	14.8	13.1	10.1	14.0	20.0	22.9	25.2	28.1	31.6	8.3	3.5		
20000	7.9	8.8	10.8	7.0	.1	3.8	3.0	2.4		2.0	8.3	9.3	13.1	16.6	22.2				
25000			2.2										1.0	5.1	8.3				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. J60-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, C-140
SINGLE ENGINE, 75% RPM
EST. T-39 +0.0DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 02
AIRCRAFT CODE 508
OPERATION CODE 02020
PROFILE VERSION A
25 MAY 76
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	109.8	108.8	112.1	113.1	112.2	112.2	110.3	106.7	105.4	100.8	101.4	103.0	102.5	103.4	103.5	95.4	94.6	80.2	58.1
250	107.4	106.4	109.7	110.7	109.8	109.7	107.8	104.3	103.0	98.5	99.1	100.7	100.3	101.2	101.3	93.3	92.4	77.8	55.4
315	105.0	103.9	107.2	108.1	107.3	107.2	105.3	101.8	100.5	96.1	96.7	98.3	98.0	99.0	99.1	91.1	90.2	75.5	52.3
400	102.3	101.3	104.6	105.5	104.6	104.6	102.7	99.2	97.9	93.5	94.2	95.8	95.7	96.6	96.9	88.8	87.8	73.0	49.2
500	99.6	98.6	101.8	102.7	101.8	101.8	99.9	96.5	95.2	90.9	91.8	93.1	93.2	94.2	94.5	86.2	85.2	70.4	46.1
630	96.6	95.6	98.8	99.7	98.8	98.8	97.0	93.5	92.3	88.1	89.2	90.3	90.6	91.7	92.0	83.5	82.5	67.6	42.6
800	93.4	92.5	95.6	96.4	95.5	95.5	93.7	90.4	89.1	85.4	86.5	87.5	88.0	89.0	89.4	80.7	79.7	64.7	38.6
1000	90.0	89.0	92.0	92.9	92.0	92.0	90.2	86.9	85.7	82.5	83.6	84.7	85.1	86.1	86.7	77.7	76.6	61.5	33.6
1250	86.1	85.3	88.2	89.0	88.1	88.1	86.4	83.2	82.0	79.4	80.6	81.6	82.1	83.1	83.8	74.4	73.4	58.1	27.2
1600	81.9	81.2	83.9	84.7	83.7	83.8	82.1	79.0	77.9	76.1	77.3	78.4	78.9	79.9	80.8	70.9	69.9	54.2	16.3
2000	77.4	76.7	79.2	79.9	78.9	79.0	77.4	74.5	73.4	72.5	73.8	74.8	75.4	76.4	77.6	67.3	66.4	49.8	5.5
2500	72.2	71.7	73.9	74.5	73.4	73.6	72.2	69.3	68.5	68.6	69.9	70.9	71.5	72.6	73.9	63.3	62.3	44.7	
3150	67.3	67.5	68.0	68.4	67.3	67.5	66.5	64.7	64.0	64.2	65.5	66.7	67.3	68.3	69.8	58.9	57.8	38.9	
4000	61.8	62.1	62.0	61.5	60.2	60.7	60.7	59.0	58.3	59.0	60.4	61.6	62.7	63.7	64.9	53.9	52.3	31.2	
5000	55.6	56.3	55.7	55.1	53.3	54.3	54.6	52.4	51.5	53.4	54.6	56.0	57.6	58.5	59.8	48.2	46.1	22.7	
6300	48.6	49.5	48.4	47.8	45.6	46.8	47.2	45.0	44.0	47.2	48.6	49.9	52.0	53.1	54.4	42.0	39.4	14.1	
8000	42.7	43.6	42.2	41.4	38.9	40.4	41.1	38.9	37.9	41.0	43.0	44.0	46.1	47.9	49.7	36.5	33.3	5.6	
10000	35.9	37.0	35.2	34.7	31.1	33.2	34.2	31.5	30.3	33.9	37.0	37.8	40.2	42.1	44.5	29.1	24.7		
12500	28.8	30.1	27.8	27.8	22.8	25.1	26.5	23.9	21.4	26.1	29.8	31.0	33.8	35.5	38.9	18.7	14.1		
16000	20.0	21.8	19.3	18.5	11.5	14.4	14.8	13.1	10.1	14.0	20.0	22.9	25.2	28.1	31.6	8.3	3.5		
20000	7.9	8.8	10.8	7.0	.1	3.8	3.0	2.4		2.0	8.3	9.3	13.1	16.6	22.2				
25000			2.2										1.0	5.1	8.3				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 02
AIRCRAFT CODE 508
OPERATION CODE 02020
PROFILE VERSION A
25 MAY 76
PAGE F2

NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. J60-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, C-140
SINGLE ENGINE, 75% RPM
EST. T-39 +0.0DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	90.2	89.6	92.5	93.7	92.5	92.7	90.6	87.0	85.7	85.5	86.4	87.2	89.2	89.6	89.6	80.6	78.7	65.5	45.5
250	87.8	87.2	90.1	91.2	90.1	90.3	88.2	84.7	83.4	83.3	84.3	85.1	87.0	87.5	87.5	78.5	76.6	63.4	43.4
315	85.3	84.7	87.5	88.7	87.6	87.7	85.7	82.2	81.0	81.0	82.0	82.8	84.8	85.3	85.4	76.4	74.4	61.2	41.2
400	82.7	82.2	84.9	86.0	84.9	85.1	83.1	79.7	78.4	78.7	79.8	80.6	82.6	83.1	83.2	74.3	72.3	59.0	39.0
500	80.0	79.6	82.1	83.2	82.0	82.2	80.3	77.0	75.8	76.3	77.4	78.3	80.3	80.9	81.0	72.0	70.0	56.7	36.7
630	77.2	76.8	79.1	80.1	79.0	79.2	77.4	74.2	73.1	73.9	75.0	75.9	78.0	78.5	78.8	69.7	67.7	54.3	34.3
800	74.2	74.0	75.9	76.9	75.7	76.0	74.3	71.3	70.2	71.4	72.6	73.4	75.6	76.1	76.5	67.3	65.3	51.9	31.9
1000	71.0	71.0	72.6	73.4	72.2	72.5	71.0	68.2	67.3	68.8	70.1	70.9	73.1	73.7	74.1	64.8	62.8	49.3	29.3
1250	67.7	67.9	69.0	69.6	68.4	68.7	67.5	65.1	64.2	66.1	67.4	68.3	70.5	71.1	71.5	62.1	60.1	46.6	26.6
1500	64.4	64.8	65.2	65.6	64.3	64.8	64.0	61.8	61.0	63.3	64.7	65.6	67.8	68.4	68.9	59.3	57.3	43.7	23.7
2000	61.0	61.6	61.4	61.5	60.2	60.8	60.4	58.5	57.8	60.4	61.9	62.8	64.9	65.5	66.2	56.4	54.4	40.8	20.8
2500	57.5	58.3	57.6	57.5	56.0	56.8	56.9	55.2	54.5	57.4	58.8	59.8	61.9	62.5	63.2	53.2	51.3	37.5	17.5
3150	53.8	54.9	53.8	53.5	52.1	53.0	53.3	51.7	51.1	54.0	55.6	56.5	58.6	59.2	60.0	49.8	48.0	34.1	14.1
4000	49.9	51.2	49.9	49.5	48.1	49.1	49.0	48.0	47.4	50.4	52.0	52.9	55.0	55.6	56.4	46.1	44.3	30.2	10.2
5000	45.6	47.0	45.7	45.3	44.0	44.9	45.5	43.8	43.4	46.4	47.9	48.9	50.9	51.5	52.3	42.0	40.2	26.1	6.1
6300	41.0	42.6	41.2	40.9	39.6	40.5	41.1	39.4	39.0	42.0	43.5	44.5	46.5	47.1	48.0	37.7	35.9	21.7	1.7
8000	37.1	38.6	37.2	36.8	35.4	36.3	37.0	35.2	34.7	37.7	39.3	40.2	42.2	42.9	44.0	33.7	31.9	17.7	
10000	33.0	34.3	32.9	32.4	30.9	31.8	32.5	30.8	30.2	32.9	34.7	35.6	37.5	38.4	39.7	29.4	27.5	13.5	
12500	28.5	29.6	28.3	27.7	26.0	27.0	27.6	25.9	25.3	27.8	29.8	30.6	32.4	33.5	35.1	24.9	22.9	9.0	
16000	23.7	24.5	23.2	22.6	20.6	21.7	22.2	20.7	19.9	22.2	24.4	25.2	26.9	28.3	30.1	20.1	18.0	4.5	
20000	18.4	19.0	17.6	17.1	14.8	15.9	16.4	15.0	14.2	16.1	18.6	19.3	21.0	22.6	24.7	15.3	13.1		
25000	12.5	12.9	11.5	11.0	8.5	9.5	10.0	8.9	8.0	9.7	12.2	13.1	14.7	16.7	19.0	10.7	8.4		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 02
AIRCRAFT CODE 508
OPERATION CODE 02020
PROFILE VERSION A
25 MAY 76
PAGE G2

NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. J60-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, C-140
SINGLE ENGINE, 75% RPM
EST. T-39 +0.0DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	94.3	93.3	96.9	98.2	97.5	97.3	95.0	91.1	89.7	87.1	87.8	89.1	89.2	89.6	90.7	80.6	79.9	65.5	45.5
250	91.9	90.9	94.4	95.8	95.0	94.9	92.6	88.7	87.4	84.8	85.6	86.9	87.0	87.5	88.6	78.5	77.8	63.4	43.4
315	89.4	88.5	91.9	93.3	92.5	92.3	90.1	86.3	85.0	82.6	83.4	84.7	84.8	85.3	86.5	76.4	75.7	61.2	41.2
400	86.8	85.9	89.3	90.6	89.8	89.6	87.5	83.7	82.4	80.3	81.1	82.4	82.6	83.1	84.3	74.3	73.5	59.0	39.0
500	84.1	83.3	86.5	87.7	87.0	86.8	84.7	81.1	79.8	77.9	78.8	80.1	80.3	80.9	82.1	72.0	71.3	56.7	36.7
630	81.2	80.5	83.6	84.7	83.9	83.8	81.8	78.3	77.1	75.5	76.4	77.7	78.0	78.5	79.8	69.7	69.0	54.3	34.3
800	78.2	77.7	80.3	81.4	80.6	80.5	78.7	75.4	74.2	73.0	73.9	75.3	75.6	76.1	77.5	67.3	66.5	51.9	31.9
1000	75.1	74.7	76.9	77.9	77.1	77.1	75.4	72.3	71.3	70.4	71.4	72.8	73.1	73.7	75.1	64.8	64.0	49.3	29.3
1250	71.8	71.6	73.3	74.2	73.3	73.3	71.9	69.1	68.2	67.7	68.8	70.1	70.5	71.1	72.6	62.1	61.4	46.6	26.6
1600	68.4	68.5	69.6	70.2	69.2	69.4	68.4	65.9	65.0	64.9	66.0	67.4	67.8	68.4	70.0	59.3	58.6	43.7	23.7
2000	65.0	65.3	65.8	66.1	65.1	65.4	64.8	62.6	61.8	62.0	63.2	64.6	64.9	65.5	67.3	56.4	55.7	40.8	20.8
2500	61.5	62.1	62.0	62.1	61.0	61.4	61.3	59.2	58.5	58.9	60.2	61.6	61.9	62.5	64.3	53.2	52.6	37.5	17.5
3150	57.9	58.6	58.2	58.1	57.0	57.0	57.7	55.8	55.1	55.6	56.9	58.3	58.6	59.2	61.0	49.8	49.2	34.1	14.1
4000	53.2	54.1	53.4	53.2	52.1	52.8	53.1	51.2	50.6	51.7	53.0	54.4	55.0	55.6	57.2	46.1	45.3	30.2	10.2
5000	48.6	49.2	48.3	48.1	46.9	47.7	48.2	46.3	45.8	47.4	48.7	50.0	50.9	51.5	53.0	42.0	41.0	26.1	6.1
6300	42.7	44.0	43.0	42.7	41.5	42.3	42.9	41.0	40.6	42.7	44.1	45.2	46.5	47.1	48.4	37.7	36.4	21.7	1.7
8000	37.9	39.3	38.1	37.7	36.4	37.3	37.8	36.0	35.5	38.0	39.6	40.6	42.2	42.9	44.2	33.7	32.1	17.7	
10000	33.0	34.3	32.9	32.4	30.9	31.8	32.5	30.8	30.2	32.9	34.7	35.6	37.5	38.4	39.7	29.4	27.5	13.5	
12500	28.5	29.6	28.3	27.7	26.0	27.0	27.6	25.9	25.3	27.8	29.8	30.6	32.4	33.5	35.1	24.9	22.9	9.0	
16000	23.7	24.5	23.2	22.6	20.6	21.7	22.2	20.7	19.9	22.2	24.4	25.2	26.9	28.3	30.1	20.1	18.0	4.5	
20000	18.4	19.0	17.6	17.1	14.8	15.9	16.4	15.0	14.2	16.1	18.6	19.3	21.0	22.6	24.7	15.3	13.1		
25000	12.5	12.9	11.5	11.0	8.5	9.5	10.0	8.9	8.0	9.7	12.2	13.1	14.7	16.7	19.0	10.7	8.4		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

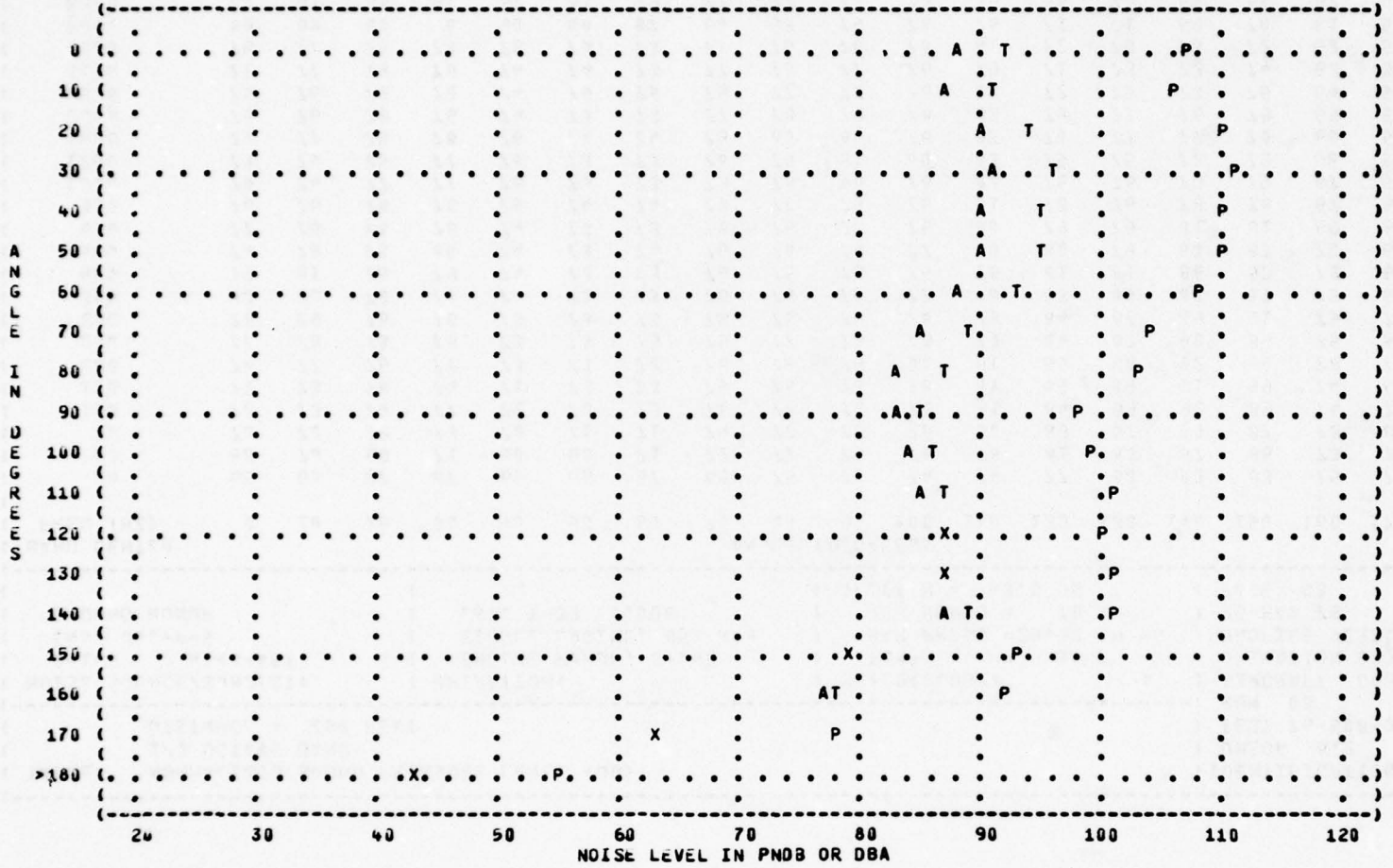
NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. J60-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, C-140
SINGLE ENGINE, 75% RPM
EST. T-39 +0.0DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 02
AIRCRAFT CODE 508
OPERATION CODE 02020
PROFILE VERSION A
25 MAY 76
PAGE J2

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 03
AIRCRAFT CODE 508
OPERATION CODE 02018
PROFILE VERSION A
25 MAY 76
PAGE C3

NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. J66-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, C-140
SINGLE ENGINE, 85% RPM
EST. T-39 +0.0DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
50	65	65	67	67	65	66	67	69	75	71	74	74	77	80	83	83	75	74	54
63	68	70	69	71	68	68	71	72	77	74	76	78	81	83	87	86	73	72	52
80	70	72	72	73	70	71	71	74	77	75	78	80	83	87	89	87	73	69	49
100	72	73	74	77	72	73	73	76	77	76	78	81	84	89	92	89	74	70	50
125	72	73	75	74	71	73	73	75	76	76	78	81	85	89	91	89	74	68	48
160	74	77	76	77	73	73	72	76	78	79	81	81	85	90	92	90	78	73	53
200	77	78	78	78	73	73	73	75	77	76	78	79	84	87	90	89	75	69	49
250	78	79	78	78	73	73	73	76	76	76	78	79	84	87	89	91	75	70	50
315	80	80	79	78	74	73	73	76	76	76	77	78	83	84	87	89	75	68	48
400	79	81	78	79	74	73	73	76	76	76	75	78	81	81	86	87	72	65	45
500	78	78	78	80	74	73	74	76	76	78	77	80	80	79	83	83	70	63	43
630	77	76	78	78	74	73	73	78	76	78	76	80	79	79	81	81	69	62	42
800	76	76	78	78	76	74	74	78	77	79	76	81	78	76	78	78	67	60	40
1000	75	74	77	77	76	73	73	78	78	80	78	82	76	76	79	79	67	59	39
1250	73	73	75	77	75	73	73	78	79	81	80	83	75	75	77	79	66	59	39
1600	74	77	75	78	76	74	74	79	80	80	78	83	75	77	77	78	65	57	37
2000	73	76	78	76	74	73	73	77	78	79	78	83	75	77	76	79	65	58	38
2500	75	76	79	78	74	75	75	79	77	77	76	81	72	75	73	75	64	56	36
3150	77	77	79	76	74	74	73	77	76	77	76	79	71	73	73	74	62	54	34
4000	76	77	78	78	76	75	73	77	76	78	78	81	72	73	73	72	62	56	36
5000	88	88	93	90	90	88	87	84	85	79	78	78	71	71	69	70	61	52	32
6300	82	81	85	81	82	81	79	77	77	75	74	75	68	70	67	66	57	49	29
8000	74	73	73	74	71	71	68	70	69	70	70	72	65	66	63	61	53	44	24
10000	74	73	76	75	73	72	69	69	67	65	64	67	60	60	59	56	47	39	19
OVERALL	92	92	95	93	92	91	90	91	91	91	91	94	94	97	100	99	85	81	61

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. J60-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, C-140
SINGLE ENGINE, 85% RPM
EST. T-39 +0.0DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 03
AIRCRAFT CODE 508
OPERATION CODE 02018
PROFILE VERSION A
25 MAY 76
PAGE D3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	109.4	109.6	112.8	110.7	109.6	108.2	107.5	107.1	107.7	105.5	105.1	107.9	103.1	104.9	106.5	107.0	93.6	86.9	65.8
250	107.6	107.2	110.4	108.3	107.2	105.8	105.1	104.8	105.3	103.1	102.7	105.6	100.8	102.8	104.3	104.9	91.4	84.6	63.4
315	104.5	104.8	107.9	105.8	104.6	103.3	102.6	102.3	102.9	100.7	100.3	103.3	98.6	100.6	102.2	102.7	89.1	82.3	60.9
400	101.9	102.2	105.3	103.2	102.0	100.7	99.9	99.8	100.3	98.2	97.9	100.8	96.3	98.3	99.9	100.5	86.8	80.0	58.3
500	99.1	99.4	102.5	100.5	99.2	97.9	97.2	97.0	97.6	95.6	95.3	98.2	93.9	95.9	97.5	98.2	84.4	77.5	55.5
630	96.1	96.5	99.5	97.5	96.2	94.9	94.2	94.2	94.7	92.9	92.5	95.7	91.3	93.3	95.0	95.7	82.0	74.9	52.7
800	92.9	93.3	96.3	94.4	93.0	91.7	91.0	91.1	91.6	90.1	89.5	93.0	88.7	90.6	92.4	93.1	79.4	72.4	49.4
1000	89.5	89.9	92.8	90.9	89.5	88.2	87.6	87.7	88.3	87.2	86.6	90.1	85.8	87.7	89.7	90.4	76.7	69.7	46.2
1250	85.7	86.1	88.9	87.1	85.7	84.3	83.7	84.1	84.0	84.1	83.5	87.1	83.0	84.5	86.9	87.5	73.6	66.5	42.2
1600	81.5	81.9	84.0	83.0	81.4	80.1	79.6	80.7	80.7	80.9	80.2	83.8	79.9	81.3	83.9	84.6	70.4	63.2	38.0
2000	76.9	77.4	79.9	78.5	76.7	75.4	74.9	76.9	77.2	77.4	76.6	80.3	76.7	77.9	80.7	81.4	67.2	59.8	33.2
2500	71.8	72.4	74.7	73.4	71.5	70.1	69.8	72.8	73.4	73.6	72.7	76.4	72.8	73.9	76.7	77.5	63.1	55.5	24.2
3150	66.9	67.8	69.1	68.8	66.1	64.7	64.8	68.4	69.1	69.5	68.3	72.2	68.5	69.6	72.3	73.1	58.5	50.4	13.9
4000	62.1	62.9	63.9	64.0	61.3	59.8	59.9	63.7	64.4	64.8	63.6	67.5	64.0	65.0	67.4	68.2	53.4	44.8	3.6
5000	56.9	57.6	58.4	58.8	56.1	54.4	54.5	58.6	59.3	59.8	58.5	62.5	58.9	59.9	62.4	62.7	47.6	38.7	
6300	51.2	51.8	52.7	53.3	50.2	48.0	48.0	52.8	53.5	54.2	53.0	56.9	53.6	54.5	57.1	57.4	41.7	31.6	
8000	46.2	47.0	47.5	48.6	44.5	42.3	42.2	47.2	47.2	48.7	47.4	51.5	49.0	49.8	52.9	53.2	36.1	23.5	
10000	40.8	41.5	41.8	43.1	38.5	36.1	36.2	41.3	40.7	42.4	40.8	45.2	43.8	44.6	48.2	48.4	29.8	13.9	
12500	34.5	35.2	35.1	37.0	31.3	28.2	29.1	34.7	33.8	35.8	34.3	38.8	37.9	39.0	43.0	43.2	21.7	4.4	
16000	27.8	28.2	28.7	29.8	22.1	18.6	19.9	26.3	24.8	28.5	25.9	31.4	31.2	32.1	37.1	37.2	10.5		
20000	17.6	18.1	17.8	20.7	7.9	9.0	7.0	13.1	12.3	16.9	13.9	21.9	21.6	22.8	29.8	30.8			
25000	7.4	8.1	6.9	8.0						5.4	1.9	8.0	7.4	6.9	17.2	20.5			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 03
AIRCRAFT CODE 508
OPERATION CODE 02018
PROFILE VERSION A
25 MAY 76
PAGE E3

NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. JT8D-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, C-140
SINGLE ENGINE, 85% RPM
EST. T-39 +0.0DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	112.4	112.9	110.6	114.1	113.2	111.7	111.1	109.3	110.3	105.5	105.1	107.9	103.1	104.9	106.5	107.0	94.2	87.9	66.8
250	110.0	110.5	114.2	111.7	110.8	109.2	108.7	106.9	108.0	103.1	102.7	105.6	100.8	102.8	104.3	104.9	92.0	85.7	64.4
315	107.5	108.0	111.7	109.2	108.3	106.7	106.2	104.5	105.5	100.7	100.3	103.3	98.6	100.5	102.2	102.7	89.7	83.4	61.9
400	104.9	105.4	109.1	106.6	105.6	104.1	103.5	101.9	103.0	98.2	97.9	100.8	96.3	98.3	99.9	100.5	87.4	81.0	59.3
500	102.2	102.6	106.3	103.8	102.8	101.3	100.8	99.2	100.2	95.6	95.3	98.2	93.9	95.9	97.5	98.2	85.0	78.6	56.6
630	99.2	99.7	103.3	100.9	99.9	98.3	97.8	96.3	97.4	92.9	92.5	95.7	91.3	93.3	95.0	95.7	82.5	76.0	53.7
800	96.0	96.5	100.1	97.7	96.6	95.1	94.6	93.2	94.3	90.1	89.5	93.0	88.7	90.6	92.4	93.1	80.0	73.4	50.5
1000	92.5	93.1	96.6	94.3	93.1	91.6	91.1	89.9	90.9	87.2	86.6	90.1	85.8	87.7	89.7	90.4	77.3	70.7	47.2
1250	88.7	89.3	92.7	90.5	89.3	87.8	87.3	86.2	87.3	84.1	83.5	87.1	83.0	84.6	86.9	87.5	74.2	67.5	43.2
1600	84.6	85.2	88.5	86.4	85.0	83.5	83.2	82.8	83.4	80.9	80.2	83.8	79.9	81.3	83.9	84.6	71.0	64.2	39.1
2000	80.0	80.6	83.8	81.8	80.3	78.8	78.5	79.1	79.9	77.4	76.6	80.3	76.7	77.9	80.7	81.4	67.8	60.8	34.3
2500	74.9	75.6	78.5	76.8	75.1	73.5	73.4	74.9	76.0	73.6	72.7	76.4	72.8	73.9	76.7	77.5	63.7	56.5	25.2
3150	70.0	71.1	72.9	72.2	69.8	68.2	68.4	70.6	71.8	69.5	68.3	72.2	68.5	69.6	72.3	73.1	59.1	51.4	14.9
4000	64.6	65.5	66.9	66.7	64.2	62.5	62.8	65.4	66.5	64.8	63.6	67.5	64.0	65.0	67.4	68.2	53.9	45.6	4.5
5000	58.6	59.6	60.7	60.8	58.2	56.5	56.7	59.9	60.9	59.8	58.5	62.5	58.9	59.9	62.4	62.7	48.0	39.3	
6300	52.4	53.1	54.3	54.6	51.6	49.4	49.4	53.6	54.5	54.2	53.0	56.9	53.6	54.5	57.1	57.4	41.9	32.0	
8000	46.9	47.6	48.3	49.2	45.2	43.0	43.0	47.6	47.8	48.7	47.4	51.5	49.0	49.8	52.9	53.2	36.2	23.7	
10000	40.8	41.5	41.8	43.1	38.5	36.1	36.2	41.3	40.7	42.4	40.8	45.2	43.8	44.5	48.2	48.4	29.8	13.9	
12500	34.5	35.2	35.1	37.0	31.3	28.2	29.1	34.7	33.8	35.8	34.3	38.8	37.9	39.0	43.0	43.2	21.7	4.4	
16000	27.8	28.2	28.7	29.8	22.1	18.6	19.9	26.3	24.8	28.5	25.9	31.4	31.2	32.1	37.1	37.2	10.5		
20000	17.6	18.1	17.8	20.7	7.9	9.0	7.0	13.1	12.3	16.9	13.9	21.9	21.6	22.8	29.8	30.8			
25000	7.4	8.1	6.9	8.0						5.4	1.9	8.0	7.4	6.9	17.2	20.5			

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 03
AIRCRAFT CODE 508
OPERATION CODE 02018
PROFILE VERSION A
25 MAY 76
PAGE F3

NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. J60-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, C-140
SINGLE ENGINE, 85% RPM
EST. T-39 +0.0DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	93.9	94.0	97.6	95.1	94.4	92.9	92.1	92.3	92.5	92.2	91.0	94.4	89.5	90.7	92.5	93.3	80.1	73.2	53.2
250	91.5	91.6	95.2	92.8	92.0	90.5	89.7	90.0	90.2	90.0	88.8	92.2	87.3	88.5	90.4	91.2	78.0	71.1	51.1
315	89.0	89.1	92.7	90.3	89.5	88.0	87.2	87.6	87.9	87.7	86.5	90.0	85.2	86.4	88.3	89.1	75.9	69.0	49.0
400	86.4	86.5	90.0	87.7	86.8	85.3	84.5	85.2	85.4	85.4	84.2	87.7	83.0	84.2	86.2	87.0	73.8	66.9	46.9
500	83.6	83.9	87.2	85.0	84.0	82.5	81.8	82.7	82.9	83.1	81.8	85.4	80.8	82.0	84.0	84.8	71.5	64.6	44.6
630	80.8	81.0	84.2	82.2	81.1	79.6	78.9	80.1	80.3	80.6	79.4	83.0	78.5	79.6	81.7	82.5	69.2	62.3	42.3
800	77.7	78.1	81.0	79.2	78.0	76.4	75.9	77.5	77.7	73.1	76.8	80.5	76.2	77.2	79.3	80.2	66.9	60.0	40.0
1000	74.6	75.0	77.6	76.1	74.7	73.1	72.7	74.7	74.9	75.6	74.2	77.9	73.7	74.7	76.9	77.8	64.4	57.5	37.5
1250	71.3	71.8	74.1	72.9	71.2	69.6	69.3	71.8	72.0	72.9	71.5	75.3	71.2	72.0	74.3	75.2	61.8	54.9	34.9
1600	68.6	68.6	70.4	69.7	67.7	66.0	65.9	68.9	69.0	70.1	68.7	72.5	68.5	69.2	71.5	72.4	59.1	52.1	32.1
2000	64.7	65.3	66.6	66.5	64.1	62.4	62.5	65.9	66.0	67.2	65.8	69.6	65.8	66.3	68.7	69.6	56.3	49.3	29.3
2500	61.3	61.9	62.9	63.1	60.6	58.8	59.0	62.7	62.8	64.2	62.7	66.5	62.7	63.1	65.5	66.3	53.1	46.1	26.1
3150	57.8	58.3	59.2	59.6	57.0	55.2	55.4	59.3	59.4	60.9	59.3	63.1	59.4	59.6	62.0	62.8	49.7	42.6	22.6
4000	54.0	54.4	55.3	55.9	53.4	51.4	51.6	55.7	55.7	57.3	55.7	59.5	55.6	55.8	58.1	58.8	45.9	38.8	18.8
5000	49.8	50.1	51.1	51.7	49.3	47.3	47.5	51.6	51.6	53.3	51.6	55.4	51.5	51.5	53.8	54.5	41.7	34.6	14.6
6300	45.3	45.6	46.7	47.3	44.9	42.8	43.1	47.2	47.1	48.9	47.2	51.0	47.1	47.0	49.4	49.9	37.2	30.2	10.2
8000	41.4	41.5	42.6	43.2	40.7	38.5	38.8	42.8	42.7	44.5	42.8	46.6	43.2	43.1	45.6	46.1	33.4	26.4	6.4
10000	37.1	37.2	38.2	38.8	36.0	34.0	34.2	38.2	37.9	39.7	38.0	41.7	39.1	39.0	41.6	42.1	29.2	22.3	2.3
12500	32.5	32.6	33.4	34.0	30.9	29.0	29.3	33.1	32.6	34.5	32.9	36.5	34.6	34.6	37.4	37.8	24.8	17.9	
16000	27.5	27.7	28.2	28.9	25.4	23.6	23.9	27.6	27.0	28.7	27.3	30.9	29.7	29.9	32.8	33.2	20.0	13.2	
20000	22.0	22.3	22.5	23.3	19.3	17.7	18.0	21.6	21.0	22.5	21.3	24.8	24.4	25.0	28.0	28.3	14.9	8.3	
25000	16.0	16.4	16.3	17.1	12.8	11.4	11.7	15.0	14.6	15.9	15.0	18.2	18.8	19.9	22.9	23.2	9.5	3.2	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. J60-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, C-140
SINGLE ENGINE, 85% RPM
EST. T-39 +0.0DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 03
AIRCRAFT CODE 508
OPERATION CODE 02018
PROFILE VERSION A
25 MAY 76
PAGE G3

DISTANCE	ANGLE (DEGREES)																		
(FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	>180
200	97.6	97.2	101.5	98.5	98.0	96.3	95.7	94.4	95.2	92.2	91.0	94.4	89.5	90.7	92.5	93.3	80.7	74.2	54.2
250	94.6	94.8	99.0	96.1	95.6	93.9	93.3	92.1	92.9	90.0	88.8	92.2	87.3	88.6	90.4	91.2	78.6	72.1	52.1
315	92.0	92.4	96.5	93.6	93.1	91.4	90.8	89.8	90.5	87.7	86.5	90.0	85.2	86.4	88.3	89.1	76.5	70.0	50.0
400	89.4	89.8	93.8	91.1	90.4	88.7	88.1	87.3	88.1	85.4	84.2	87.7	83.0	84.2	86.2	87.0	74.3	67.9	47.9
500	86.7	87.1	91.0	88.4	87.7	85.9	85.4	84.8	85.6	83.1	81.8	85.4	80.8	82.0	84.0	84.8	72.1	65.7	45.7
630	83.6	84.3	88.0	85.5	84.7	83.0	82.5	82.3	83.0	80.6	79.4	83.0	78.5	79.6	81.7	82.5	69.8	63.3	43.3
800	80.8	81.3	84.8	82.6	81.6	79.8	79.5	79.6	80.3	78.1	76.8	80.5	76.2	77.2	79.3	80.2	67.5	61.0	41.0
1000	77.7	78.2	81.4	79.5	78.3	76.5	76.3	76.8	77.5	75.6	74.2	77.9	73.7	74.7	76.9	77.8	65.0	58.5	38.5
1250	74.4	75.1	77.9	76.3	74.8	73.0	72.9	74.0	74.7	72.9	71.5	75.3	71.2	72.0	74.3	75.2	62.4	55.9	35.9
1600	71.1	71.8	74.2	73.1	71.3	69.5	69.5	71.0	71.7	70.1	68.7	72.5	68.5	69.2	71.5	72.4	59.7	53.1	33.1
2000	67.8	68.6	70.4	69.8	67.7	65.9	66.1	68.0	68.7	67.2	65.8	69.6	65.8	66.3	68.7	69.6	56.9	50.3	30.3
2500	64.4	65.1	66.7	66.5	64.2	62.2	62.6	64.8	65.5	64.2	62.7	66.5	62.7	63.1	65.5	66.3	53.7	47.1	27.1
3150	60.8	61.5	63.0	63.0	60.7	58.6	59.0	61.5	62.1	60.9	59.3	63.1	59.4	59.6	62.0	62.8	50.3	43.7	23.7
4000	56.4	57.0	58.4	58.5	56.3	54.1	54.5	57.4	57.8	57.3	55.7	59.5	55.6	55.8	58.1	58.8	46.4	39.6	19.6
5000	51.6	52.1	53.4	53.7	51.5	49.3	49.7	52.9	53.2	53.3	51.6	55.4	51.5	51.5	53.8	54.5	42.0	35.2	15.2
6300	46.6	46.9	48.2	48.6	46.4	44.2	44.5	48.0	48.2	48.9	47.2	51.0	47.1	47.0	49.4	49.9	37.5	30.6	10.6
8000	42.0	42.2	43.4	43.8	41.4	39.2	39.5	43.3	43.2	44.5	42.8	46.6	43.2	43.1	45.6	46.1	33.5	26.6	6.6
10000	37.1	37.2	38.2	38.8	36.0	34.0	34.2	38.2	37.9	39.7	38.0	41.7	39.1	39.0	41.6	42.1	29.2	22.3	2.3
12500	32.5	32.6	33.4	34.0	30.9	29.0	29.3	33.1	32.6	34.5	32.9	36.5	34.6	34.5	37.4	37.8	24.8	17.9	
16000	27.5	27.7	28.2	28.9	25.4	23.6	23.9	27.6	27.0	28.7	27.3	30.9	29.7	29.9	32.8	33.2	20.0	13.2	
20000	22.0	22.3	22.5	23.3	19.3	17.7	18.0	21.6	21.0	22.5	21.3	24.8	24.4	25.0	28.0	28.3	14.9	8.3	
25000	16.6	16.4	16.3	17.1	12.8	11.4	11.7	15.0	14.6	15.9	15.0	18.2	18.8	19.9	22.9	23.2	9.5	3.2	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

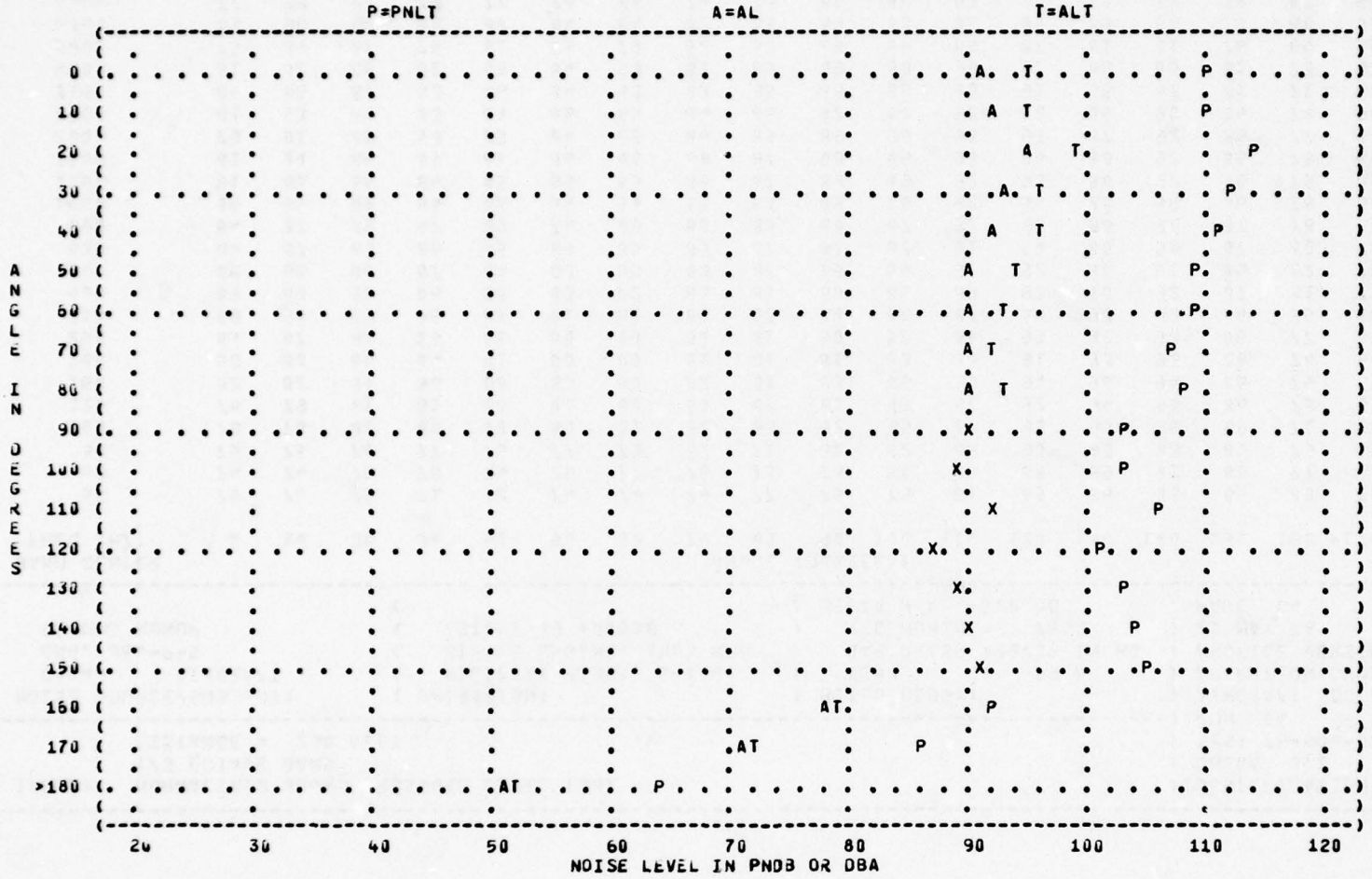
NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. J60-P-5
GROUND RUNUP

OPERATION:
ENGINE RUNUP, C-140
SINGLE ENGINE, 85% RPM
EST. T-39 +0.00B

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 03
AIRCRAFT CODE 508
OPERATION CODE 02018
PROFILE VERSION A
25 MAY 76
PAGE J3

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 04

NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. J60-P-5
GROUND RUNUP

OPERATION:
MILITARY POWER, C-140
SINGLE ENGINE, 100% RPM
EST. T-39 +0.0DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

AIRCRAFT CODE 508
OPERATION CODE 02004
PROFILE VERSION A
25 MAY 76
PAGE C4

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	70	70	72	71	72	74	74	74	77	75	79	81	85	86	88	85	80	70	60
63	74	74	75	75	74	75	77	76	78	78	80	84	88	89	91	88	77	67	57
80	75	75	78	77	76	77	79	80	81	80	82	86	90	93	93	89	75	65	55
100	78	78	82	80	78	80	81	82	83	82	85	87	93	95	95	89	76	66	56
125	78	79	81	81	80	80	80	80	82	83	85	87	92	94	95	86	75	65	55
160	82	82	84	83	80	80	80	82	81	83	86	90	94	96	94	86	75	65	55
200	83	83	86	84	81	80	80	80	82	81	83	88	91	93	93	86	74	64	54
250	85	87	86	85	81	80	80	80	81	80	82	86	93	92	93	86	77	67	57
315	89	90	89	86	83	81	81	80	83	80	80	87	89	93	92	84	78	68	58
400	89	89	88	86	83	83	82	83	84	83	81	89	92	90	92	87	81	71	61
500	86	88	88	87	84	83	83	83	87	85	84	90	92	88	91	89	82	72	62
630	84	87	89	86	85	84	84	85	87	87	87	91	94	88	90	87	80	70	60
800	84	87	89	87	85	84	85	86	88	88	87	92	93	88	90	87	78	68	58
1000	84	84	89	88	85	84	84	85	88	89	88	92	94	88	90	86	78	68	58
1250	81	85	86	84	85	85	85	86	87	89	89	92	93	88	92	86	75	65	55
1600	81	84	86	84	85	86	86	88	87	88	89	93	94	88	92	86	75	65	55
2000	79	81	85	83	83	84	85	84	85	89	90	93	93	87	92	86	77	67	57
2500	81	83	84	83	84	86	85	84	86	87	88	92	92	86	90	84	74	64	54
3150	85	86	87	83	86	84	83	83	85	88	86	90	91	85	87	81	72	62	52
4000	81	82	85	82	83	84	83	82	86	89	88	90	91	86	85	81	73	63	53
5000	79	80	82	78	81	81	79	80	83	85	85	86	87	81	81	76	69	59	49
6300	89	90	92	88	87	84	84	82	83	84	83	86	85	79	80	75	68	58	48
8000	77	78	80	75	77	76	75	74	78	80	80	83	81	76	77	72	65	55	45
10000	74	73	76	72	72	72	71	69	72	73	74	77	76	71	71	66	59	49	39
OVERALL	97	99	100	98	97	96	96	96	98	99	99	103	105	104	105	99	91	81	71

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 04
AIRCRAFT CODE 508
OPERATION CODE 02004
PROFILE VERSION A
25 MAY 76
PAGE 04

NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. J60-P-5
GROUND RUNUP

OPERATION:
MILITARY POWER, C-140
SINGLE ENGINE, 100% RPM
EST. T-39 +0.0DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	112.1	113.6	115.4	112.2	112.0	111.4	110.7	110.7	112.9	114.6	114.3	117.9	118.9	115.0	116.8	111.2	102.4	92.2	81.9
250	109.7	111.2	113.0	109.8	109.7	109.1	108.5	108.4	110.7	112.3	112.0	115.7	116.7	112.8	114.6	109.0	100.1	89.9	79.7
315	107.2	108.7	110.5	107.3	107.3	106.8	106.2	106.1	108.3	109.9	109.6	113.4	114.4	110.4	112.3	106.8	97.9	87.6	77.3
400	104.5	106.0	107.8	104.7	104.9	104.4	103.8	103.7	105.9	107.4	107.3	111.0	112.1	108.0	110.1	104.5	95.5	85.3	75.0
500	101.7	103.3	105.0	102.0	102.3	101.9	101.3	101.3	103.4	104.8	104.8	108.6	109.6	105.5	107.7	102.1	93.1	82.9	72.5
630	99.6	100.4	102.0	99.1	99.7	99.3	98.7	98.7	100.7	102.0	102.3	106.0	107.1	103.0	105.2	99.6	90.6	80.3	69.9
800	96.1	97.5	99.2	96.3	96.8	96.5	95.9	95.0	97.9	99.1	99.6	103.3	104.4	100.3	102.6	96.9	87.9	77.6	67.2
1000	93.1	94.5	96.1	93.3	93.8	93.6	93.0	93.2	94.9	96.1	96.7	100.4	101.5	97.5	99.9	94.2	85.1	74.8	64.3
1250	89.8	91.3	92.9	90.1	90.5	90.5	89.9	90.2	91.8	92.9	93.7	97.3	98.4	94.4	96.9	91.2	82.2	71.9	61.2
1600	86.3	87.7	89.3	86.7	86.9	87.1	86.5	87.1	88.5	89.7	90.4	94.1	95.1	91.1	93.7	88.0	79.2	68.7	58.1
2000	82.9	84.2	85.5	83.2	83.0	83.4	82.9	83.7	84.9	86.2	86.9	90.6	91.7	87.5	90.2	84.6	76.0	65.6	54.7
2500	78.9	80.3	81.4	79.6	78.9	79.4	79.0	80.1	81.2	82.3	83.1	86.8	88.0	83.7	86.4	80.8	72.6	62.0	50.9
3150	74.6	76.1	77.6	75.6	74.8	75.3	74.9	76.0	77.1	78.1	78.9	82.6	83.9	79.5	82.2	76.8	68.6	57.9	46.4
4000	69.7	71.7	73.2	71.3	70.2	70.8	70.4	71.5	72.6	73.3	74.1	78.1	79.4	74.8	77.6	72.3	64.0	53.2	41.3
5000	64.6	66.9	68.5	66.7	65.2	65.8	65.4	66.6	67.7	68.2	68.9	73.2	74.5	69.8	72.7	67.4	59.2	48.1	35.2
6300	59.4	61.9	63.5	61.7	59.8	60.3	59.9	61.2	62.6	63.0	63.4	67.8	69.2	64.5	67.2	62.4	53.9	42.1	28.5
8000	55.2	57.4	59.0	57.1	55.1	54.9	54.9	55.9	57.9	58.0	58.0	62.5	64.8	60.1	62.5	58.1	49.5	36.9	20.0
10000	50.4	52.6	54.0	52.2	49.8	49.6	49.5	50.5	52.6	52.7	52.8	57.5	60.1	55.4	57.9	53.4	44.5	31.1	11.5
12500	45.6	47.5	48.5	46.8	43.7	43.4	43.1	44.0	46.8	46.5	46.8	51.9	54.8	50.3	52.9	48.2	38.6	24.8	2.9
16000	38.9	41.3	42.2	40.4	36.9	36.4	36.2	36.9	40.5	39.6	39.4	45.5	49.0	44.4	47.0	41.9	32.6	14.3	
20000	31.9	34.7	34.7	33.4	29.7	28.1	27.7	28.4	33.2	31.2	30.8	37.9	41.6	37.5	40.4	34.4	24.8	3.9	
25000	23.1	26.3	26.3	24.0	18.1	16.4	15.7	16.0	24.0	20.4	19.0	29.3	33.5	29.3	32.4	26.1	11.5		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. J60-P-5
GROUND RUNUP

OPERATION:
MILITARY POWER, C-140
SINGLE ENGINE, 100% RPM
EST. T-39 +0.0DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 04
AIRCRAFT CODE 508
OPERATION CODE 02004
PROFILE VERSION A
25 MAY 76
PAGE E4

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	113.9	115.5	117.3	114.0	113.4	112.4	111.9	111.5	112.9	114.6	114.3	117.9	118.9	116.2	116.8	111.2	102.4	92.2	81.9
250	111.5	113.1	114.9	111.6	111.1	110.1	109.6	109.3	110.7	112.3	112.0	115.7	116.7	113.9	114.6	109.0	100.1	89.9	79.7
315	109.0	110.6	112.4	109.2	108.7	107.8	107.3	107.0	108.3	109.9	109.6	113.4	114.4	111.5	112.3	106.8	97.9	87.6	77.3
400	106.3	107.9	109.7	106.5	106.3	105.4	104.9	104.6	105.9	107.4	107.3	111.0	112.1	109.2	110.1	104.5	95.5	85.3	75.0
500	103.5	105.1	106.9	103.8	103.7	102.9	102.4	102.1	103.4	104.8	104.8	108.6	109.6	106.7	107.7	102.1	93.1	82.9	72.5
630	100.8	102.2	103.9	100.9	101.1	100.3	99.8	99.5	100.7	102.0	102.3	106.0	107.1	104.2	105.2	99.6	90.6	80.3	69.9
800	97.9	99.4	101.1	98.1	98.2	97.5	97.0	96.8	97.9	99.1	99.6	103.3	104.4	101.5	102.6	96.9	87.9	77.6	67.2
1000	94.9	96.4	98.0	95.1	95.2	94.6	94.1	94.1	94.9	96.1	96.7	100.4	101.5	98.7	99.9	94.2	85.1	74.8	64.3
1250	91.6	93.1	94.8	91.9	91.9	91.5	91.0	91.1	91.8	92.9	93.7	97.3	98.4	95.5	96.9	91.2	82.2	71.9	61.2
1600	88.1	89.6	91.2	88.6	88.3	88.1	87.6	87.9	88.5	89.7	90.4	94.1	95.1	92.2	93.7	88.0	79.2	68.7	58.1
2000	84.7	86.1	87.4	85.0	84.5	84.4	84.0	84.6	84.9	86.2	86.9	90.6	91.7	88.6	90.2	84.6	76.0	65.6	54.7
2500	80.7	82.2	83.3	81.4	80.3	80.4	80.2	80.9	81.2	82.3	83.1	86.8	88.0	84.8	86.4	80.8	72.6	62.0	50.9
3150	76.4	78.0	79.5	77.4	76.2	76.3	76.1	76.9	77.1	78.1	78.9	82.6	83.9	80.7	82.2	76.8	68.6	57.9	46.4
4000	71.1	73.2	74.7	72.8	71.3	71.6	71.3	72.2	72.6	73.3	74.1	78.1	79.4	75.8	77.6	72.3	64.0	53.2	41.3
5000	65.7	68.0	69.7	67.8	66.0	66.4	66.1	67.1	67.7	68.2	68.9	73.2	74.5	70.5	72.7	67.4	59.2	48.1	35.2
6300	60.1	62.6	64.3	62.4	60.4	60.7	60.4	61.5	62.0	63.0	63.4	67.8	69.2	65.1	67.2	62.4	53.9	42.1	28.5
8000	55.5	57.8	59.3	57.5	55.3	55.1	55.1	56.0	57.9	58.0	58.0	62.5	64.8	60.3	62.5	58.1	49.5	36.9	20.0
10000	50.4	52.6	54.0	52.2	49.8	49.6	49.5	50.5	52.6	52.7	52.8	57.5	60.1	55.4	57.9	53.4	44.5	31.1	11.5
12500	45.0	47.5	48.5	46.8	43.7	43.4	43.1	44.0	46.8	46.5	46.8	51.9	54.8	50.3	52.9	48.2	38.6	24.8	2.9
16000	38.9	41.3	42.2	40.4	36.9	36.4	36.2	36.9	40.5	39.6	39.4	45.5	49.0	44.4	47.0	41.9	32.6	14.3	
20000	31.9	34.7	34.7	33.4	29.7	28.1	27.7	28.4	33.2	31.2	30.8	37.9	41.6	37.5	40.4	34.4	24.8	3.9	
25000	23.1	26.3	26.3	24.0	18.1	16.4	15.7	16.0	24.0	20.4	19.0	29.3	33.5	29.3	32.4	26.1	11.5		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. JT8D-P-5
GROUND RUNUP

OPERATION:
MILITARY POWER, C-140
SINGLE ENGINE, 100% RPM
EST. T-39 +0.0DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 04
AIRCRAFT CODE 508
OPERATION CODE 02004
PROFILE VERSION A
25 MAY 76
PAGE F4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	97.5	99.2	100.9	98.4	98.1	97.9	97.5	97.9	99.6	101.0	101.1	104.7	105.5	100.6	103.1	98.0	89.7	79.7	69.7
250	95.2	96.9	98.7	96.2	95.8	95.7	95.2	95.7	97.4	98.8	98.9	102.5	103.4	98.5	101.0	95.8	87.6	77.6	67.6
315	92.8	94.6	96.3	93.9	93.5	93.4	93.0	93.5	95.2	96.6	96.6	100.3	101.2	95.3	98.8	93.7	85.4	75.4	65.4
400	90.5	92.2	93.9	91.6	91.1	91.1	90.7	91.2	92.9	94.2	94.3	98.0	98.9	94.1	96.6	91.5	83.2	73.2	63.2
500	88.0	89.8	91.5	89.3	88.7	88.7	88.3	88.9	90.6	91.9	92.0	95.7	96.6	91.8	94.3	89.2	81.0	71.0	61.0
630	85.5	87.4	89.0	86.9	86.2	86.3	85.9	86.5	88.2	89.4	89.6	93.3	94.3	89.5	92.0	86.9	78.7	68.7	58.7
800	83.0	84.8	86.4	84.4	83.6	83.7	83.4	84.1	85.7	86.9	87.0	90.8	91.8	87.1	89.6	84.6	76.4	66.4	56.4
1000	80.4	82.3	83.8	81.9	81.0	81.1	80.8	81.5	83.2	84.3	84.4	88.3	89.3	84.6	87.1	82.2	74.0	64.0	54.0
1250	77.7	79.6	81.2	79.4	78.2	78.4	78.1	78.9	80.6	81.6	81.7	85.6	86.7	81.9	84.5	79.6	71.6	61.6	51.6
1600	74.9	76.9	78.4	76.7	75.4	75.6	75.3	76.2	77.8	78.7	78.9	82.8	84.0	79.2	81.8	77.0	69.0	59.0	49.0
2000	72.2	74.2	75.6	74.0	72.5	72.6	72.4	73.3	75.0	75.8	76.0	79.9	81.2	76.3	78.9	74.3	66.4	56.4	46.4
2500	69.6	71.1	72.6	71.0	69.4	69.5	69.4	70.3	72.0	72.7	72.8	76.8	78.1	73.2	75.8	71.3	63.5	53.5	43.5
3150	66.6	67.8	69.4	67.8	66.1	66.2	66.0	67.0	68.8	69.4	69.5	73.5	74.9	69.8	72.5	68.1	60.3	50.3	40.3
4000	61.9	64.2	65.9	64.3	62.5	62.5	62.4	63.4	65.3	65.8	65.8	69.8	71.3	66.1	68.7	64.5	56.6	46.6	36.6
5000	57.8	60.1	61.9	60.4	58.4	58.4	58.4	59.4	61.3	61.8	61.7	65.7	67.2	62.1	64.6	60.4	52.6	42.6	32.5
6300	53.4	55.7	57.6	56.1	54.1	53.9	53.9	54.9	56.9	57.4	57.2	61.2	62.8	57.6	60.1	56.0	48.2	38.2	28.2
8000	49.5	51.7	53.5	52.0	49.8	49.6	49.6	50.6	52.7	53.0	52.7	56.8	58.6	53.4	55.8	51.9	44.3	34.3	24.3
10000	45.2	47.5	49.1	47.5	45.2	44.9	44.9	45.8	48.1	48.2	47.8	52.1	54.0	49.0	51.2	47.6	40.1	30.1	20.1
12500	40.6	42.8	44.2	42.6	40.2	39.8	39.8	40.6	43.1	43.0	42.6	46.9	49.0	44.2	46.3	42.8	35.5	25.5	15.5
16000	35.5	37.7	38.8	37.2	34.8	34.3	34.2	34.9	37.6	37.2	36.8	41.3	43.6	39.0	41.0	37.6	30.5	20.5	10.5
20000	30.0	32.1	32.9	31.3	28.8	28.3	28.1	28.8	31.6	30.9	30.5	35.2	37.7	33.6	35.4	32.0	25.0	15.0	5.0
25000	24.1	26.0	26.4	24.8	22.2	21.7	21.4	22.0	24.9	24.0	23.7	28.6	31.2	27.9	29.5	25.8	18.8	8.8	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. J60-P-5
GROUND RUNUP

OPERATION:
MILITARY POWER, C-140
SINGLE ENGINE, 100% RPM
EST. T-38 +0.0DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 04
AIRCRAFT CODE 508
OPERATION CODE 02004
PROFILE VERSION A
25 MAY 76
PAGE G4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	99.3	101.1	102.8	100.2	99.5	98.9	98.6	98.7	99.6	101.0	101.1	104.7	105.5	101.8	103.1	98.0	89.7	79.7	69.7
250	97.6	98.8	100.6	98.0	97.2	96.7	96.4	96.5	97.4	98.8	98.9	102.5	103.4	99.7	101.0	95.8	87.6	77.6	67.6
315	94.7	96.5	98.2	95.8	94.9	94.4	94.1	94.3	95.2	96.0	96.6	100.3	101.2	97.5	98.8	93.7	85.4	75.4	65.4
400	92.3	94.1	95.8	93.5	92.5	92.1	91.8	92.1	92.9	94.2	94.3	98.0	98.9	95.3	96.6	91.5	83.2	73.2	63.2
500	89.0	91.7	93.4	91.1	90.1	89.7	89.4	89.7	90.6	91.9	92.0	95.7	96.6	93.0	94.3	89.2	81.0	71.0	61.0
630	87.3	89.2	90.9	88.7	87.6	87.3	87.0	87.4	88.2	89.4	89.6	93.3	94.3	90.5	92.0	86.9	78.7	68.7	58.7
800	84.8	86.7	88.3	86.3	85.0	84.7	84.5	84.9	85.7	86.9	87.0	90.8	91.8	88.2	89.6	84.6	76.4	66.4	56.4
1000	82.2	84.2	85.7	83.8	82.4	82.1	81.9	82.4	83.2	84.3	84.4	88.3	89.3	85.7	87.1	82.2	74.0	64.0	54.0
1250	79.5	81.5	83.1	81.2	79.6	79.4	79.2	79.8	80.6	81.6	81.7	85.6	86.7	83.1	84.5	79.6	71.6	61.6	51.6
1600	76.8	78.8	80.3	78.5	76.8	76.6	76.5	77.1	77.8	78.7	78.9	82.8	84.0	80.3	81.8	77.0	69.0	59.0	49.0
2000	74.0	76.0	77.5	75.8	73.9	73.6	73.6	74.2	75.0	75.8	76.0	79.9	81.2	77.5	78.9	74.3	66.4	56.4	46.4
2500	70.8	73.0	74.5	72.8	70.8	70.5	70.5	71.1	72.0	72.7	72.8	76.8	78.1	74.4	75.8	71.3	63.5	53.5	43.5
3150	67.5	69.7	71.3	69.6	67.5	67.2	67.2	67.9	68.8	69.4	69.5	73.5	74.9	71.0	72.5	68.1	60.3	50.3	40.3
4000	63.4	65.7	67.4	65.8	63.6	63.3	63.3	64.1	65.3	65.8	65.8	69.8	71.3	67.1	68.7	64.5	56.6	46.6	36.6
5000	58.9	61.2	63.1	61.5	59.3	59.0	59.0	59.9	61.3	61.8	61.7	65.7	67.2	62.7	64.6	60.4	52.6	42.6	32.6
6300	54.2	56.5	58.4	56.8	54.6	54.3	54.4	55.3	56.9	57.4	57.2	61.2	62.8	58.1	60.1	56.0	48.2	38.2	28.2
8000	49.8	52.1	53.9	52.4	50.1	49.8	49.8	50.7	52.7	53.0	52.7	56.8	58.6	53.7	55.8	51.9	44.3	34.3	24.3
10000	45.2	47.5	49.1	47.5	45.2	44.9	44.9	45.8	48.1	48.2	47.8	52.1	54.0	49.0	51.2	47.6	40.1	30.1	20.1
12500	40.6	42.8	44.2	42.6	40.2	39.8	39.8	40.6	43.1	43.0	42.6	46.9	49.0	44.2	46.3	42.8	35.5	25.5	15.5
16000	35.5	37.7	38.8	37.2	34.8	34.3	34.2	34.9	37.6	37.2	36.8	41.3	43.6	39.0	41.0	37.6	30.5	20.5	10.5
20000	30.0	32.1	32.9	31.3	28.8	28.3	28.1	28.8	31.6	30.9	30.5	35.2	37.7	33.6	35.4	32.0	25.0	15.0	5.0
25000	24.1	26.0	26.4	24.8	22.2	21.7	21.4	22.0	24.9	24.0	23.7	28.6	31.2	27.9	29.5	25.8	18.8	8.8	

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

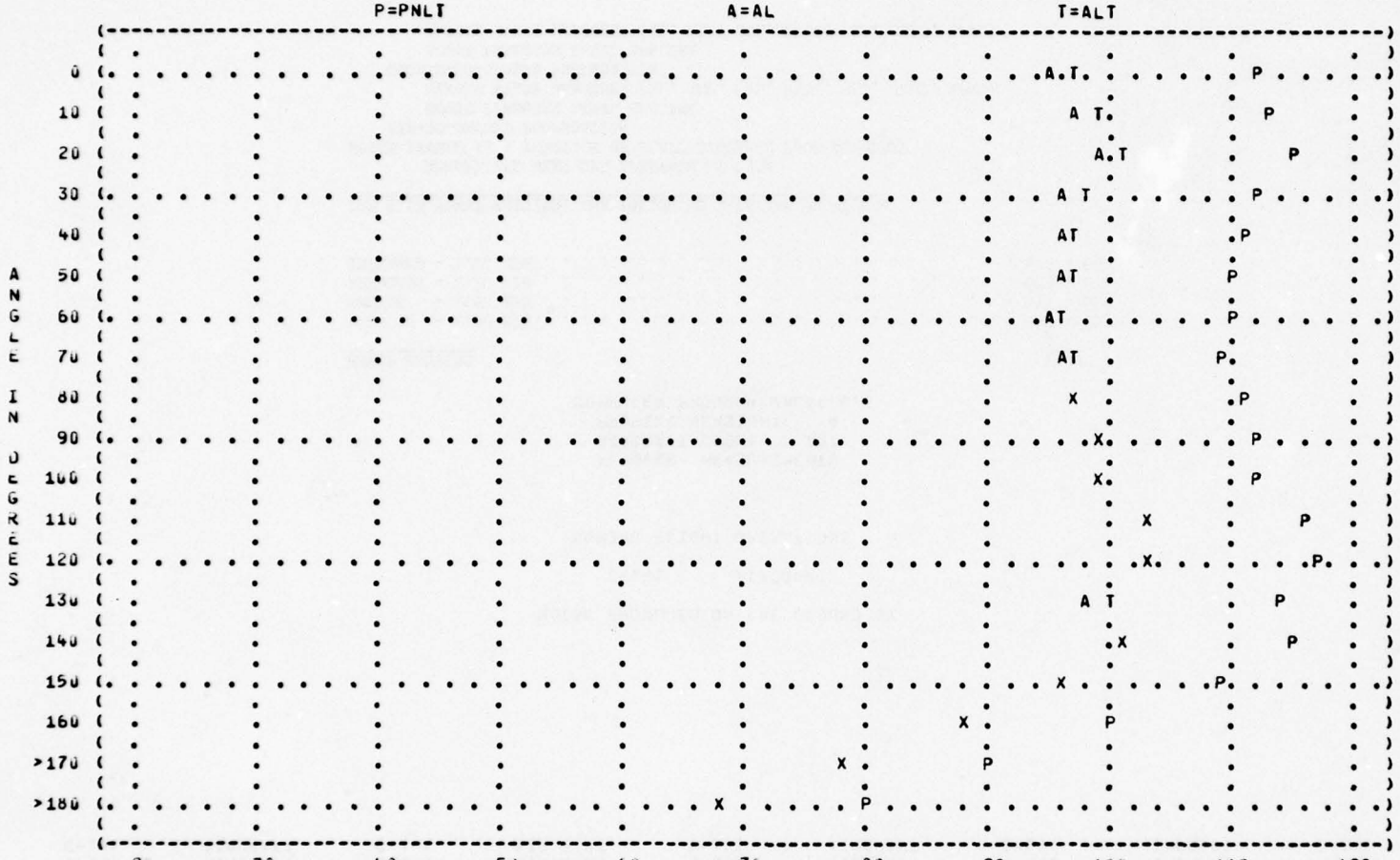
NOISE SOURCE/SUBJECT:
C-140 AIRCRAFT
ENG. JS0-P-5
GROUND RUNUP

OPERATION:
MILITARY POWER, C-140
SINGLE ENGINE, 100% RPM
EST. T-39 +0.0DB

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-508-001
RUN 04
AIRCRAFT CODE 508
OPERATION CODE 02004
PROFILE VERSION A
25 MAY 76
PAGE J4

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAF

USAF C-141 AIRCRAFT C-141 AIRCRAFT C-141 AIRCRAFT C-141 AIRCRAFT C-141 AIRCRAFT USAF

USAF C-141 AIRCRAFT C-141 AIRCRAFT C-141 AIRCRAFT C-141 AIRCRAFT C-141 AIRCRAFT USAF

USAF C-141 AIRCRAFT C-141 AIRCRAFT C-141 AIRCRAFT C-141 AIRCRAFT C-141 AIRCRAFT USAF

NOISE PRODUCED ON THE GROUND BY

C-141 AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 027
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

POWER SETTING	PAGE
TAKEOFF - 1.90 EPR	645 - 653
CRUISE - 1.52 EPR	654 - 662
APPROACH - 1.20 EPR	663 - 671
INTERMED - 1.20 EPR	672 - 680

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
AIR-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

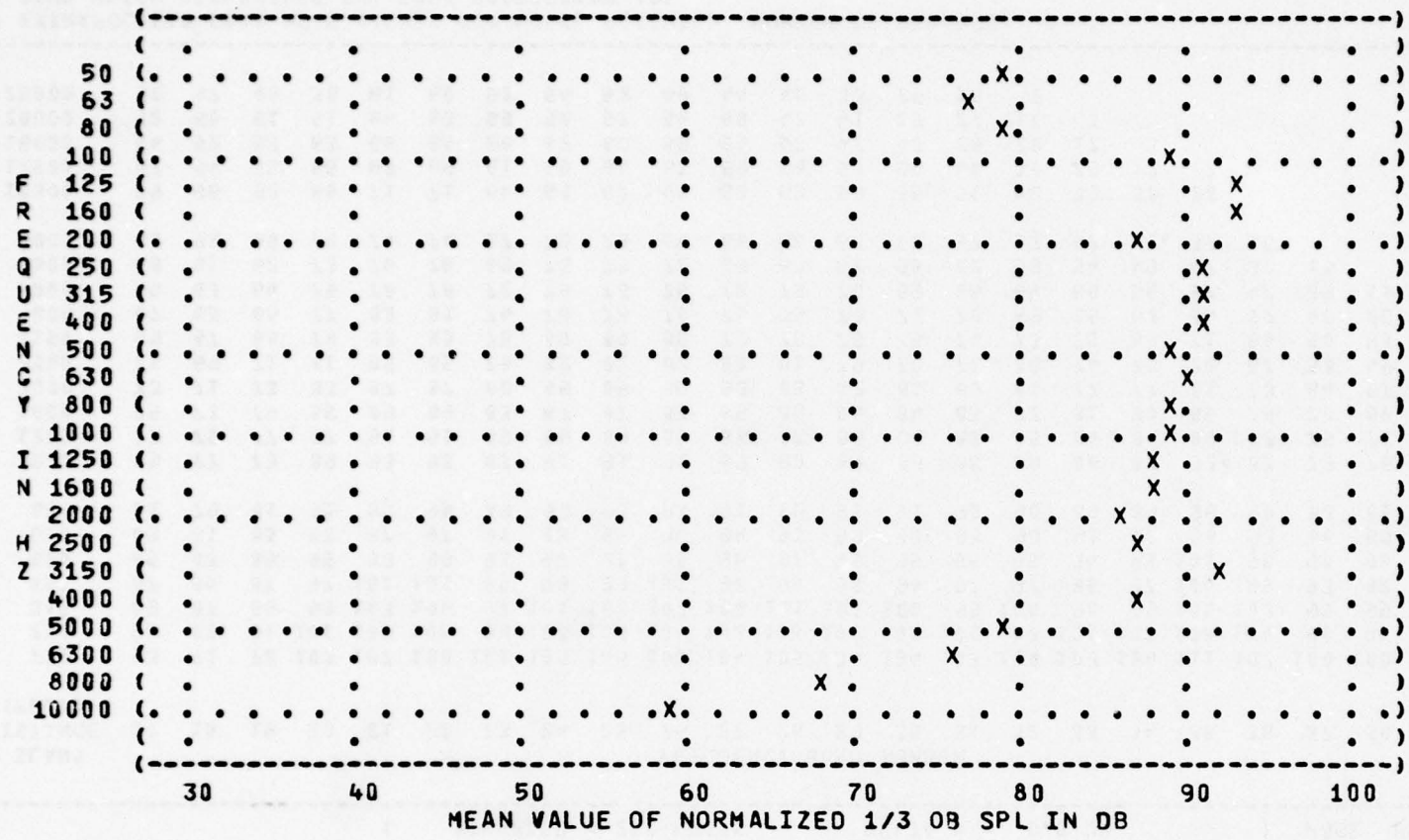
AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAF C-141 AIRCRAFT C-141 AIRCRAFT C-141 AIRCRAFT C-141 AIRCRAFT C-141 AIRCRAFT USAF

USAF C-141 AIRCRAFT C-141 AIRCRAFT C-141 AIRCRAFT C-141 AIRCRAFT C-141 AIRCRAFT USAF

USAF C-141 AIRCRAFT C-141 AIRCRAFT C-141 AIRCRAFT C-141 AIRCRAFT C-141 AIRCRAFT USAF

USAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAF



	MEAN	SD
50	79.3	2.1
63	77.3	3.0
80	78.7	2.6
100	89.4	1.1
125	92.9	1.1
160	93.4	3.0
200	86.7	1.8
250	90.9	1.8
315	91.1	1.8
400	91.3	.8
500	89.3	1.1
630	90.2	.7
800	88.8	1.1
1000	88.7	1.6
1250	87.9	1.7
1600	87.9	1.4
2000	86.4	1.0
2500	86.6	1.1
3150	92.4	1.3
4000	86.6	3.4
5000	79.2	1.5
6300	76.0	1.1
8000	68.0	2.2
10000	59.3	3.9

C-141 TAKEOFF POWER 1.90 EPR

AIRSPEED = 250 KNOTS
SLANT DISTANCE = 1000 FEET
NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %
IDENT: 6.6-027-103-311275

PNLT = 116.3 PNDB
PNL = 114.4 PNDB
ALT = 101.6 DBA
AL = 99.7 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-141

OPERATION:
TAKEOFF POWER
1.90 EPR
AIRSPEED = 250 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 027
OPS CODE: 103
PROFILE VER: A
31 DEC 75
PAGE H1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	93	91	93	103	107	108	101	105	105	106	104	105	104	104	103	104	103	104	111	107	100	100	97	95
250	91	89	91	101	105	106	99	103	103	104	102	103	102	102	101	102	101	102	108	104	98	98	94	92
315	89	87	89	99	103	104	97	101	101	102	100	101	100	100	99	100	98	99	106	102	95	95	91	88
400	87	85	87	97	101	102	95	99	99	100	98	99	98	98	97	97	96	97	104	99	93	92	87	84
500	85	83	85	95	99	99	93	97	97	98	96	97	95	95	95	95	94	95	101	96	90	88	83	79
630	83	81	83	93	97	97	91	95	95	96	94	95	93	93	93	93	91	92	98	93	86	85	79	73
800	81	79	81	91	95	95	89	93	93	93	91	92	91	91	90	90	89	89	96	90	83	81	74	67
1000	79	77	79	89	93	93	87	91	91	91	89	90	89	89	88	88	86	87	92<	87	79	76	68	59
1250	77	75	77	87	91	91	85	89	89	89	87	88	86	86	85	85	84	84	89	83	75	71	61	50
1600	75	73	75	85	89	89	83	87	87	87	85	86	84	84	83	83	81	80	85	78	70	64	53	39
2000	73	71	73	83	87	87	80	85	85	85	83	83	82	81	80	80	77	77	81	73	64	57	44	26
2500	71	69	71	81	85	85	78	82	82	82	80	81	79	78	77	76	74	73	76	67	58	49	32	10
3150	69	67	68	79	83	83	76	80	80	80	78	78	76	75	74	73	70	68	71	60	50	38	18	
4000	67	65	66	77	80	81	74	78	78	78	75	75	73	72	70	69	65	63	64	52	40	26	1	
5000	65	63	64	75	78	78	72	75	75	75	72	73	70	69	66	64	60	56	57	42	29	11		
6300	63	61	62	73	76	76	69	73	73	72	69	69	67	65	62	59	54	49	47	30	15			
8000	61	59	60	70	74	74	67	70	70	69	66	66	63	60	57	53	47	41	37	16				
10000	59	56	58	68	71	71	64	68	67	66	63	62	58	55	51	46	39	30	23					
12500	57	54	55	66	69	69	61	65	64	63	59	58	53	50	44	38	29	18	7					
16000	54	52	53	63	66	66	58	62	60	59	54	53	47	43	36	28	17	3						
20000	52	50	51	61	64	63	55	58	57	54	49	47	41	35	27	17	3							
25000	50	47	48	58	61	60	52	54	52	49	44	40	33	25	15	2								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-141

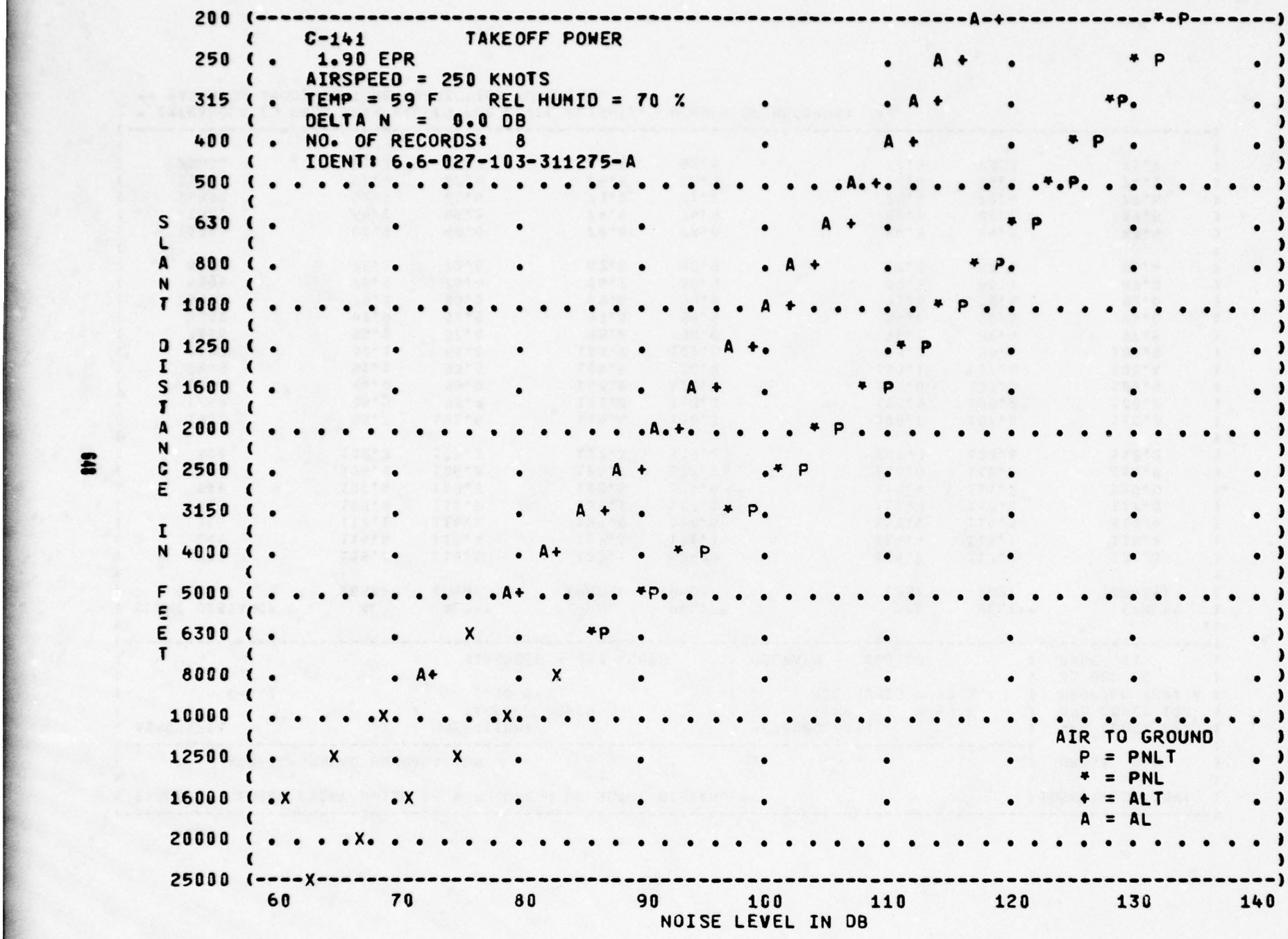
OPERATION:
TAKEOFF POWER
1.90 EPR
AIRSPEED = 250 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 027
OPS CODE: 103
PROFILE VER: A
31 DEC 75
PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	116.7	118.6	132.1	134.0	115.7	117.0	121.0
250	114.4	116.4	129.8	131.8	114.4	115.7	119.8
315	112.1	114.1	127.5	129.5	113.1	114.5	118.4
400	109.8	111.7	125.1	127.1	111.8	113.1	117.0
500	107.4	109.3	122.6	124.6	110.4	111.7	115.5
630	104.9	106.8	120.0	122.0	108.9	110.2	113.9
800	102.3	104.3	117.3	119.2	107.3	108.6	112.2
1000	99.7	101.6	114.4	116.3	105.7	107.0	110.3
1250	96.9	98.8	111.3	113.3	103.9	105.2	108.2
1600	94.0	96.0	108.0	110.0	102.0	103.3	105.9
2000	91.1	93.0	104.5	106.4	100.1	101.4	103.4
2500	88.1	90.0	100.7	102.6	98.1	99.4	100.6
3150	85.0	87.0	96.6	98.6	96.0	97.4	97.5
4000	82.0	83.5	93.0	94.5	94.0	95.0	94.6
5000	78.8	80.0	89.6	90.8	91.8	92.6	92.0
6300	75.6	76.4	86.2	86.9	89.6	90.1	89.3
8000	72.2	72.6	82.5	82.9	87.2	87.5	86.4
10000	68.8	68.8	78.8	78.8	84.8	84.8	83.4
12500	65.2	65.2	74.9	74.9	82.2	82.2	80.5
16000	61.4	61.4	71.0	71.0	79.4	79.4	77.6
20000	57.4	57.4	66.9	66.9	76.4	76.4	74.5
25000	53.3	53.3	62.6	62.6	73.3	73.3	71.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-141 TAKEOFF POWER
1.90 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-027-103-311275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

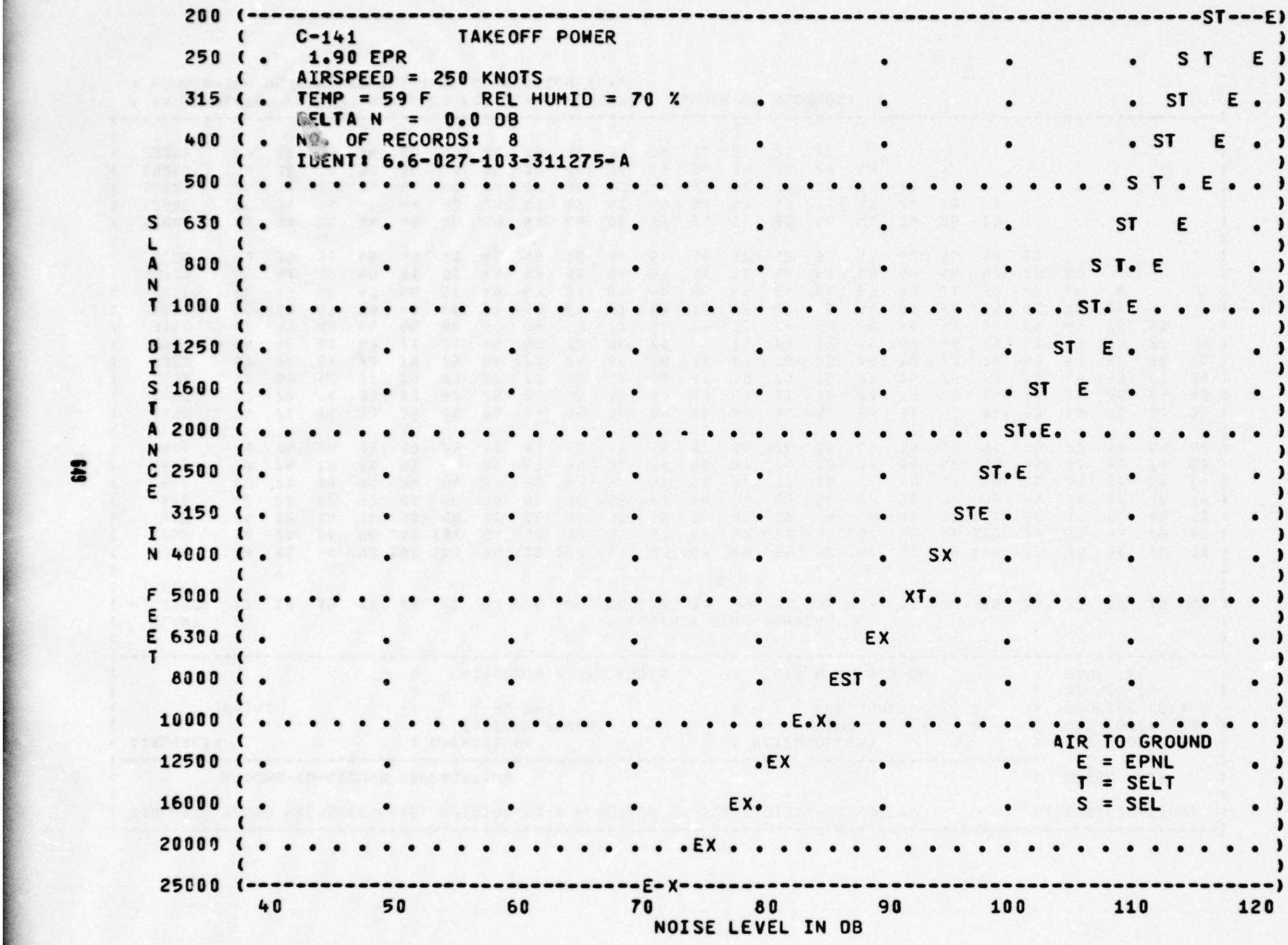

C-141 TAKEOFF POWER
1.90 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-027-103-311275-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-141

OPERATION:
TAKEOFF POWER
1.90 EPR
AIRSPEED = 250 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 027
OPS CODE: 103
PROFILE VER: A
31 DEC 75
PAGE L1

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	88	86	88	98	102	103	96	100	100	101	99	100	99	99	98	99	98	99	106	102	95	95	92	90
250	86	84	86	96	100	101	94	98	98	99	97	98	97	97	96	97	96	97	103	99	93	93	89	87
315	84	82	84	94	98	99	92	96	96	97	95	96	95	95	94	95	93	94	101	97	90	90	86	83
400	82	80	82	92	96	96	90	94	94	95	93	94	93	93	92	92	91	92	99	94	88	87	82	79
500	80	78	80	90	94	94	87	92	92	93	91	92	90	90	90	90	89	90	96	91	85	83	78	74
630	78	76	78	88	91	91	85	89	90	91	89	90	88	88	88	88	86	87	93	88	81	80	74	68
800	76	74	76	86	89	89	82	87	88	88	86	87	86	86	85	85	84	84	91	85	78	76	69	62
1000	74	72	74	83	86	86	79	84	86	86	84	85	84	84	83	83	81	82	87<	82	74	71	63	54
1250	72	70	71	80	83	82	76	80	83	84	82	83	81	81	80	80	79	79	84	78	70	66	56	45
1600	70	67	67	77	79	79	72	77	80	82	80	81	79	79	78	78	76	75	80	73	65	59	48	34
2000	67	64	64	73	75	75	68	73	76	80	78	78	77	76	75	75	72	72	76	68	59	52	39	21
2500	64	60	60	68	71	71	64	69	72	76	75	76	74	73	72	71	69	68	71	62	53	44	27	5
3150	60	55	55	64	66	66	59	64	68	72	72	73	71	70	69	68	65	63	66	55	45	33	13	
4000	55	50	49	58	60	60	53	58	63	67	68	70	68	67	65	64	60	58	59	47	35	21		
5000	50	45	45	53	56	55	49	53	57	62	64	66	65	64	61	59	55	51	52	37	24	6		
6300	45	41	40	49	51	51	44	48	51	56	59	61	61	60	57	54	49	44	42	25	10			
8000	43	39	38	46	49	48	41	45	48	53	56	58	57	55	52	48	42	36	32	11				
10000	41	36	36	44	46	46	39	43	45	50	53	54	52	50	46	41	34	25	18					
12500	39	34	33	42	44	43	36	40	42	47	49	50	47	45	39	33	24	13	2					
16000	36	32	31	39	41	40	33	37	38	43	44	45	41	38	31	23	12							
20000	34	30	29	37	39	38	30	33	35	38	39	39	35	30	22	12								
25000	32	27	26	34	36	34	26	29	30	33	34	32	27	20	10									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-141

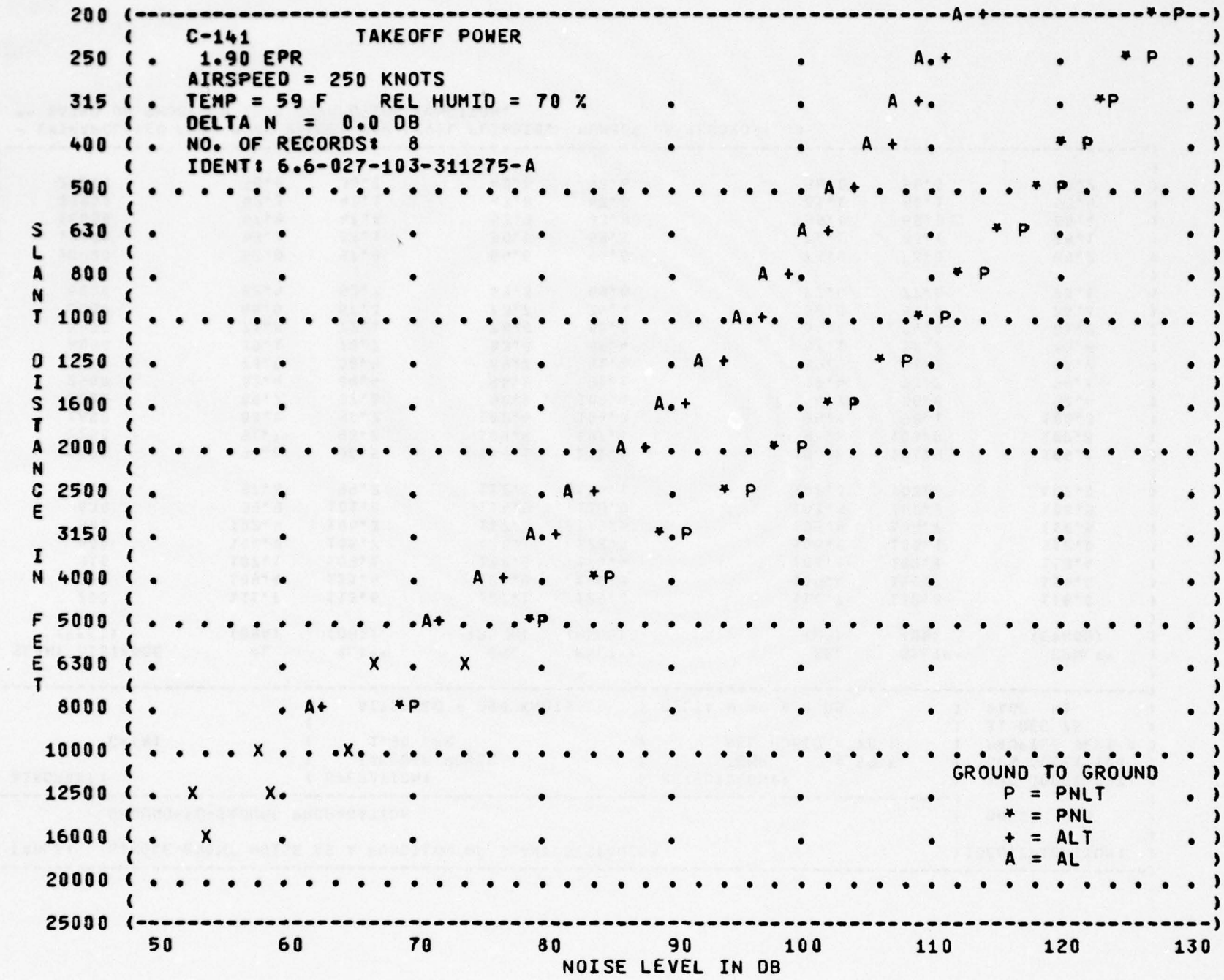
OPERATION:
TAKEOFF POWER
1.90 EPR
AIRSPEED = 250 KNOTS

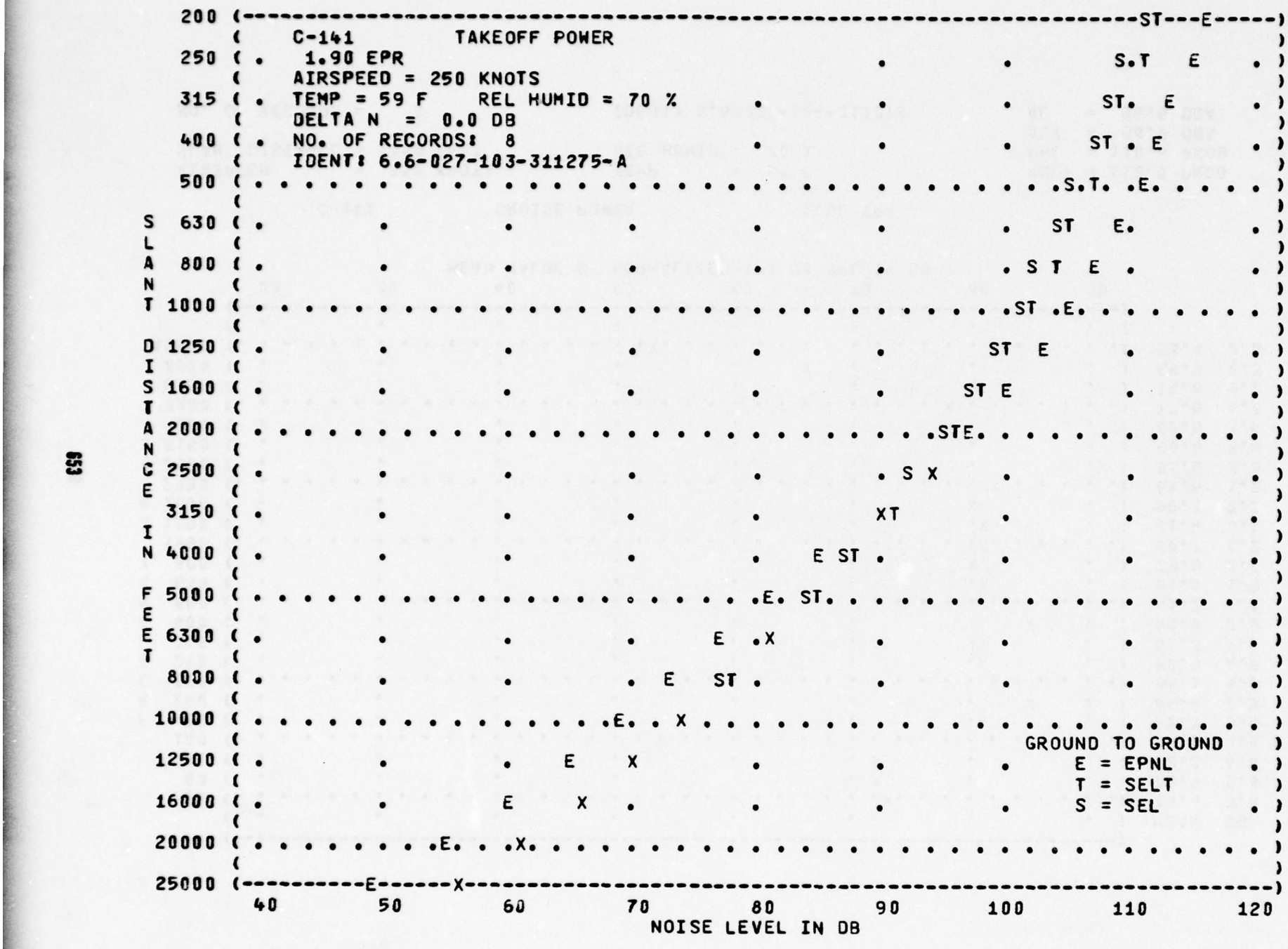
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

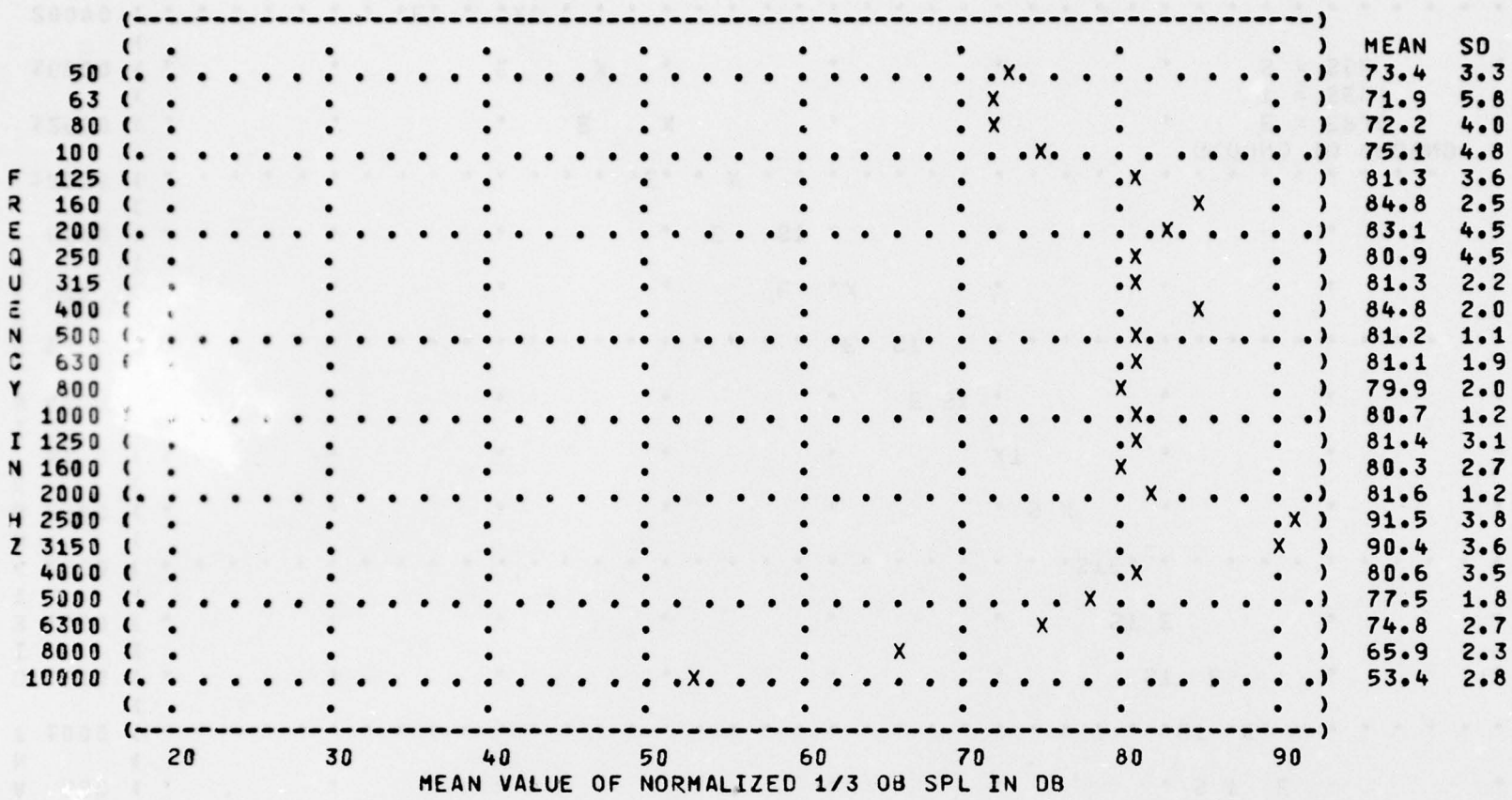
A/C CODE: 027
OPS CODE: 103
PROFILE VER: A
31 DEC 75
PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	111.7	113.6	127.1	129.0	110.7	112.0	116.0
250	109.4	111.4	124.8	126.8	109.4	110.7	114.8
315	107.1	109.1	122.5	124.4	108.1	109.5	113.4
400	104.8	106.7	120.1	122.0	106.8	108.1	112.0
500	102.4	104.3	117.6	119.5	105.4	106.7	110.5
630	99.9	101.8	114.9	116.9	103.9	105.2	108.9
800	97.3	99.2	112.1	114.1	102.3	103.6	107.0
1000	94.6	96.5	109.1	111.1	100.6	101.9	105.1
1250	91.7	93.7	105.9	107.8	98.7	100.0	102.8
1600	88.8	90.7	102.4	104.3	96.8	98.1	100.3
2000	85.7	87.6	98.5	100.4	94.7	96.0	97.4
2500	82.4	84.4	94.2	96.1	92.4	93.7	94.1
3150	78.9	80.9	89.3	91.2	89.9	91.2	90.2
4000	75.1	76.7	83.8	85.4	87.1	88.2	85.5
5000	71.0	72.1	78.8	80.0	84.0	84.8	81.2
6300	66.5	67.3	73.7	74.4	80.5	81.0	76.8
8000	62.4	62.7	69.3	69.6	77.4	77.6	73.1
10000	57.9	57.9	64.6	64.6	73.9	73.9	69.2
12500	53.1	53.1	59.5	59.5	70.1	70.1	65.1
16000	47.8	47.8	53.9	53.9	65.8	65.8	60.4
20000	42.1	42.1	47.8	47.8	61.1	61.1	55.4
25000	36.0	36.0	40.6	40.6	56.0	56.0	49.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-141 TAKEOFF POWER
1.90 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-027-103-311275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB


C-141 TAKEOFF POWER
1.90 EPR
AIRSPEED = 250 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-027-103-311275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB



C-141 CRUISE POWER 1.52 EPR

AIRSPEED = 300 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 8

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-027-104-311275

PNLT = 112.5 PNDB
PNL = 110.6 PNDB
ALT = 98.5 DBA
AL = 96.6 DBA

TABLE I SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 027
OPS CODE: 104
PROFILE VER: A
31 DEC 75
PAGE H2

AIRCRAFT: C-141

OPERATION:
CRUISE POWER
1.52 EPR
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %

DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																						
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	88	86	86	89	95	99	97	95	96	99	96	96	95	96	97	96	98	109	109	101	99	99	95	89
250	86	84	84	87	93	97	95	93	94	97	94	94	93	94	95	94	96	107	107	98	96	96	92	86
315	83	82	82	85	91	95	93	91	92	95	92	92	91	92	93	92	94	104	104	96	94	94	89	82
400	81	80	80	83	89	93	91	89	90	93	90	90	89	90	90	90	91	102	102	93	91	91	85	78
500	79	78	78	81	87	91	89	87	88	91	88	88	87	87	88	88	89	99	99	90	88	87	81	73
630	77	76	76	79	85	89	87	85	86	89	85	85	84	85	86	85	87	97	96	87	85	84	77	67
800	75	74	74	77	83	87	85	83	83	87	83	83	82	83	84	83	84	94	94	84	81	79	72	61
1000	73	72	72	75	81	85	83	81	81	85	81	81	80	81	81	80	82	91<	90	81	78	75	66	53
1250	71	70	70	73	79	83	81	79	79	83	79	79	78	78	79	78	79	88	87	77	73	70	59	44
1600	69	68	68	71	77	81	79	77	77	80	77	77	75	76	76	75	76	85	83	72	68	63	51	33
2000	67	66	66	69	75	79	77	75	75	78	74	74	73	73	74	72	73	81	79	67	63	56	41	20
2500	65	64	64	67	73	76	75	72	73	76	72	72	70	70	71	69	69	77	74	61	56	47	30	4
3150	63	62	62	65	71	74	72	70	70	73	70	69	67	67	67	65	65	73	69	54	48	37	15	
4000	61	60	60	63	69	72	70	68	68	71	67	66	64	64	64	61	60	67	62	46	38	25		
5000	59	58	58	60	67	70	68	65	66	68	64	63	61	61	60	57	55	61	54	36	27	9		
6300	57	55	56	58	64	68	66	63	63	66	61	60	58	57	55	52	49	54	45	24	13			
8000	55	53	53	56	62	65	63	60	60	63	58	57	54	52	50	46	42	45	34	9				
10000	53	51	51	54	60	63	60	58	57	60	55	53	49	47	45	39	34	35	21					
12500	51	49	49	51	57	60	58	55	54	56	51	48	44	42	38	30	24	23	5					
16000	48	47	47	49	55	57	55	52	51	52	46	43	38	35	30	21	12	7						
20000	46	44	44	46	52	54	52	48	47	48	41	38	32	27	20	9								
25000	44	42	42	44	49	51	48	44	42	43	35	31	24	17	8									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-141

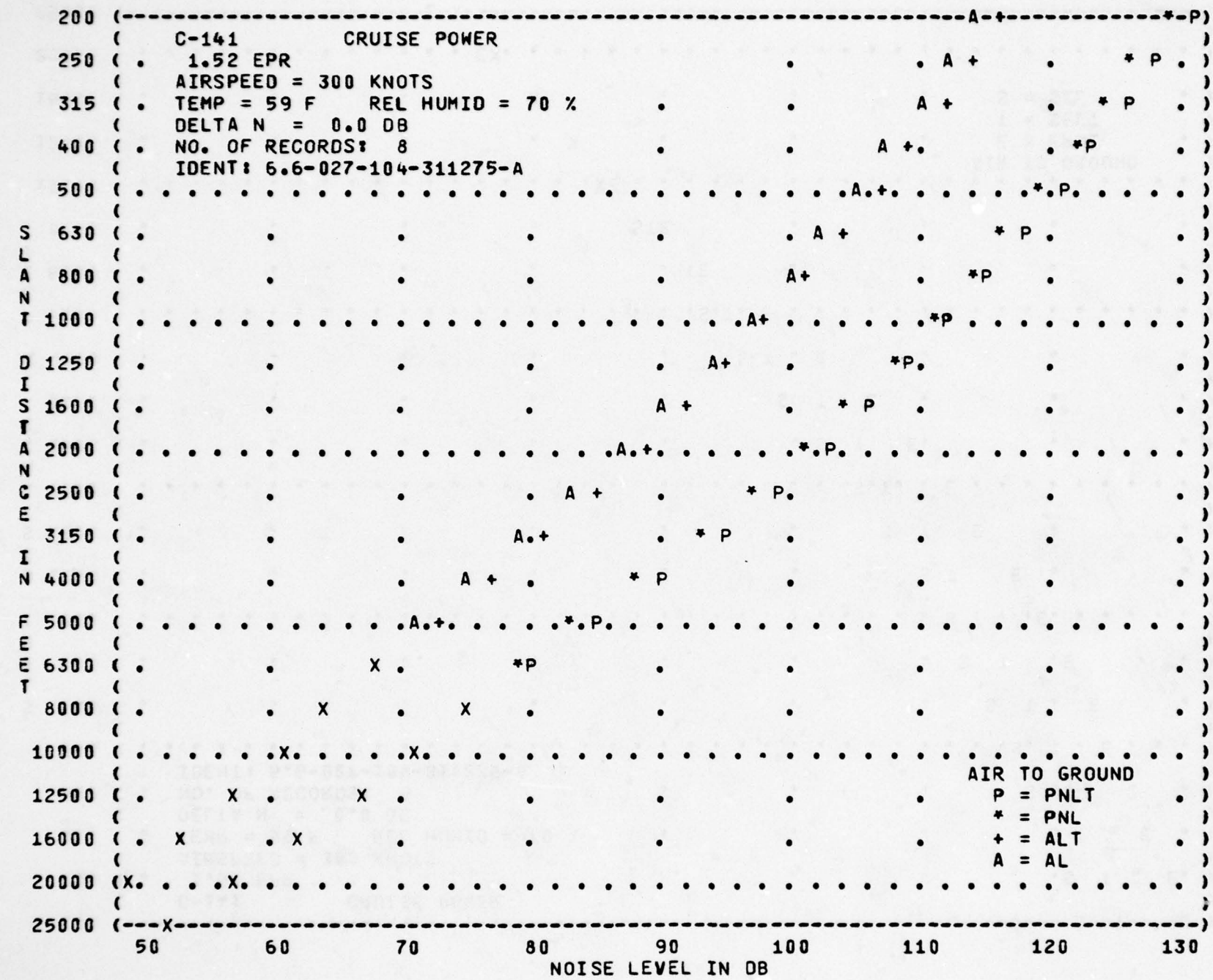
OPERATION:
CRUISE POWER
1.52 EPR
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 027
OPS CODE: 104
PROFILE VER: A
31 DEC 75
PAGE I2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	114.3	116.1	128.7	130.5	112.3	115.0	119.8
250	112.1	113.9	126.4	128.2	111.0	113.8	118.5
315	109.7	111.6	124.1	125.9	109.7	112.4	117.2
400	107.3	109.2	121.6	123.4	108.3	111.0	115.8
500	104.8	106.7	119.1	120.9	106.8	109.6	114.2
630	102.3	104.1	116.4	118.3	105.2	108.0	112.6
800	99.5	101.3	113.6	115.4	103.5	106.2	110.8
1000	96.6	98.5	110.6	112.5	101.6	104.3	108.8
1250	93.6	95.4	107.6	109.4	99.5	102.3	106.7
1600	90.3	92.1	104.3	106.2	97.2	100.0	104.5
2000	86.8	88.6	100.8	102.7	94.7	97.5	102.0
2500	83.1	84.9	97.0	98.9	92.0	94.8	99.2
3150	79.2	81.0	92.9	94.7	89.2	91.9	96.0
4000	75.3	76.7	88.4	89.9	86.2	88.4	92.0
5000	71.4	72.5	83.5	84.6	83.4	85.0	87.5
6300	67.7	68.4	78.8	79.5	80.7	81.8	83.3
8000	64.1	64.5	74.9	75.3	78.1	78.6	79.8
10000	60.5	60.5	70.9	70.9	75.5	75.5	76.3
12500	56.8	56.8	66.7	66.7	72.8	72.8	73.1
16000	53.0	53.0	62.2	62.2	70.0	70.0	69.5
20000	49.0	49.0	57.3	57.3	66.9	66.9	65.7
25000	44.7	44.7	52.5	52.5	63.7	63.7	61.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-141 CRUISE POWER
1.52 EPR
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-027-104-311275-A
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

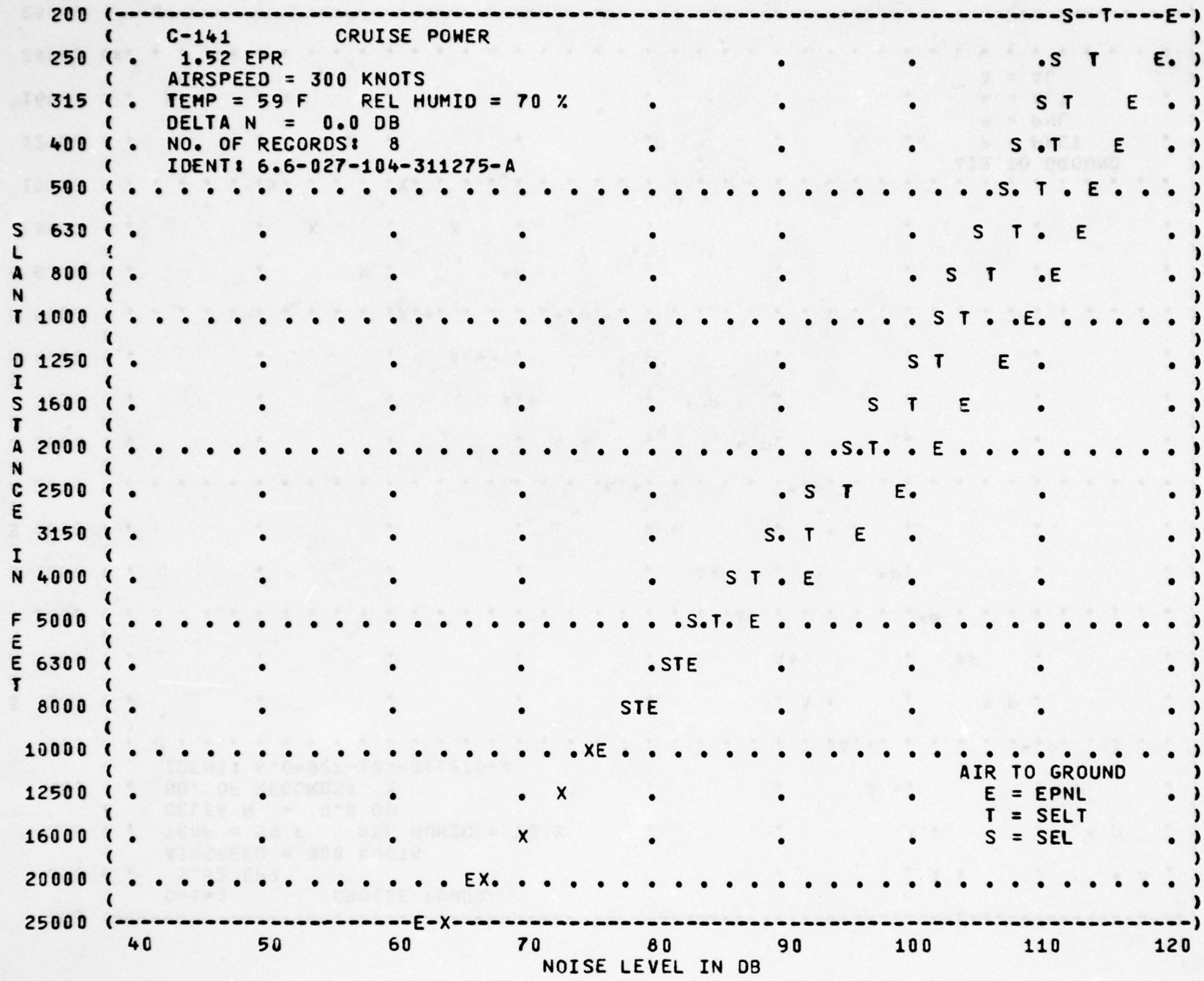

C-141 CRUISE POWER
1.52 EPR
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-027-104-311275-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-141

OPERATION:
CRUISE POWER
1.52 EPR
AIRSPEED = 300 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 027
OPS CODE: 104
PROFILE VER: A
31 DEC 75
PAGE L2

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	83	81	81	84	90	94	92	90	91	94	91	91	90	91	92	91	93	104	104	96	94	94	90	84
250	81	79	79	82	88	92	90	88	89	92	89	89	88	89	90	89	91	102	102	93	91	91	87	81
315	78	77	77	80	86	90	88	86	87	90	87	87	86	87	88	87	89	99	99	91	89	89	84	77
400	76	75	75	78	84	88	86	84	85	88	85	85	84	85	85	85	86	97	97	88	86	86	80	73
500	74	73	73	76	82	85	84	82	83	86	83	83	82	82	83	83	84	94	94	85	83	82	76	68
630	72	71	71	74	80	83	81	79	81	84	80	80	79	80	81	80	82	92	91	82	80	79	72	62
800	70	69	69	72	77	80	78	77	78	82	78	78	77	78	79	78	79	89	89	79	76	74	67	56
1000	68	67	67	69	74	77	75	74	76	80	76	76	75	76	76	75	77	86<	85	76	73	70	61	48
1250	66	65	64	66	71	74	72	70	73	78	74	74	73	73	74	73	74	83	82	72	68	65	54	39
1600	64	62	61	62	67	70	69	67	70	75	72	72	70	71	71	70	71	80	78	67	63	58	46	28
2000	61	58	57	58	64	67	65	63	66	73	69	69	68	68	69	67	68	76	74	62	58	51	36	15
2500	58	54	53	54	59	62	60	59	62	69	67	67	65	65	66	64	64	72	69	56	51	42	25	
3150	54	50	48	49	54	57	56	54	58	65	64	64	62	62	62	60	60	68	64	49	43	32	10	
4000	49	45	43	44	49	52	50	48	53	61	60	61	59	59	59	56	55	62	57	41	33	20		
5000	44	40	38	39	44	47	45	43	47	55	56	57	56	56	55	52	50	56	49	31	22	4		
6300	39	35	34	34	39	42	40	38	41	50	51	52	52	52	50	47	44	49	40	19	8			
8000	37	33	31	32	37	40	38	35	38	47	48	49	48	47	45	41	37	40	29	4				
10000	35	31	29	30	35	37	35	33	35	44	45	45	43	42	40	34	29	30	16					
12500	33	29	27	27	32	35	32	30	32	40	41	40	38	37	33	25	19	18						
16000	30	27	25	25	30	32	29	27	29	36	36	35	32	30	25	16	7	2						
20000	28	24	22	22	27	29	26	23	25	32	31	30	26	22	15	4								
25000	26	22	20	20	24	26	23	19	20	27	25	23	18	12	3									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-141

OPERATION:
CRUISE POWER
1.52 EPR

AIRSPEED = 300 KNOTS

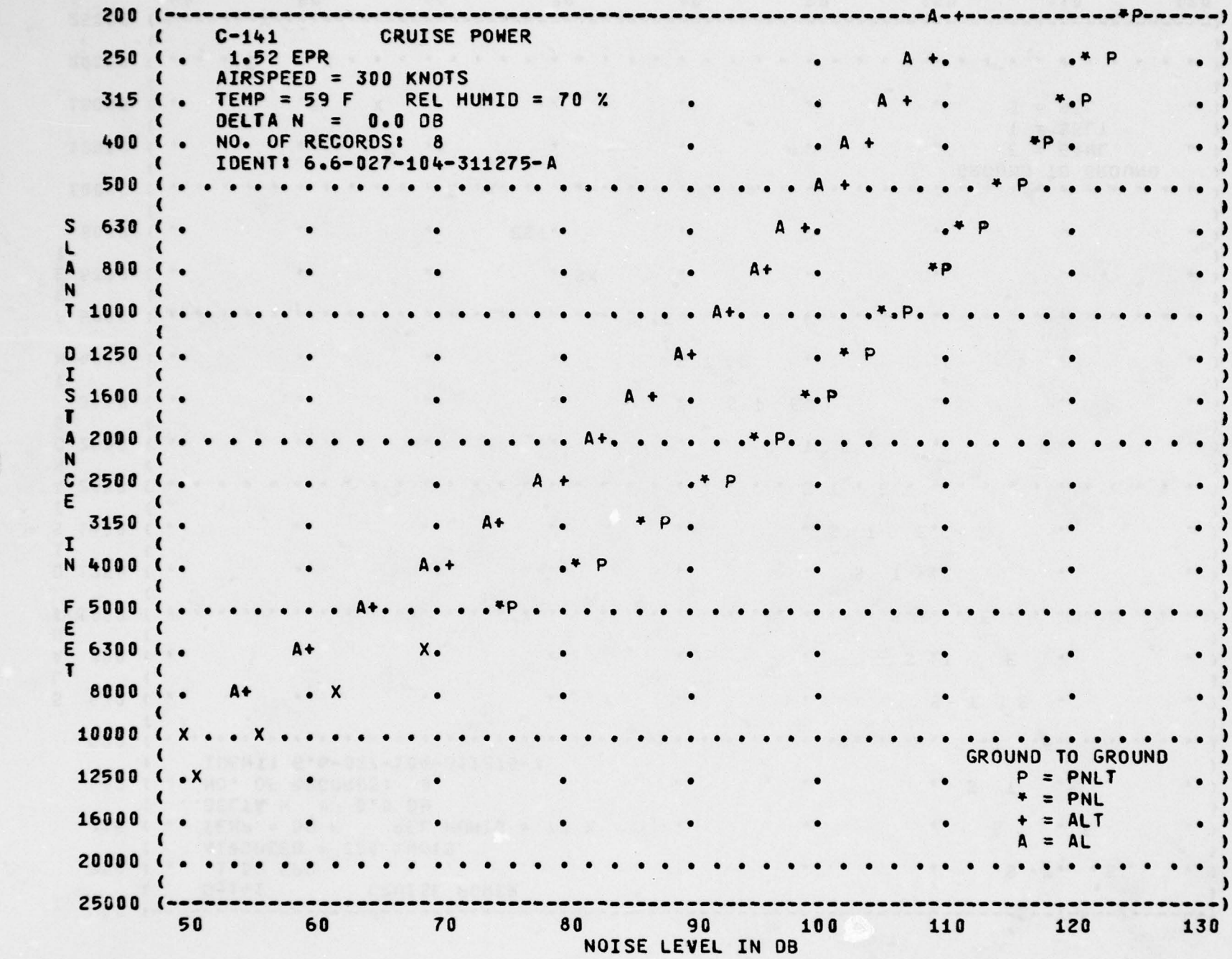
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %

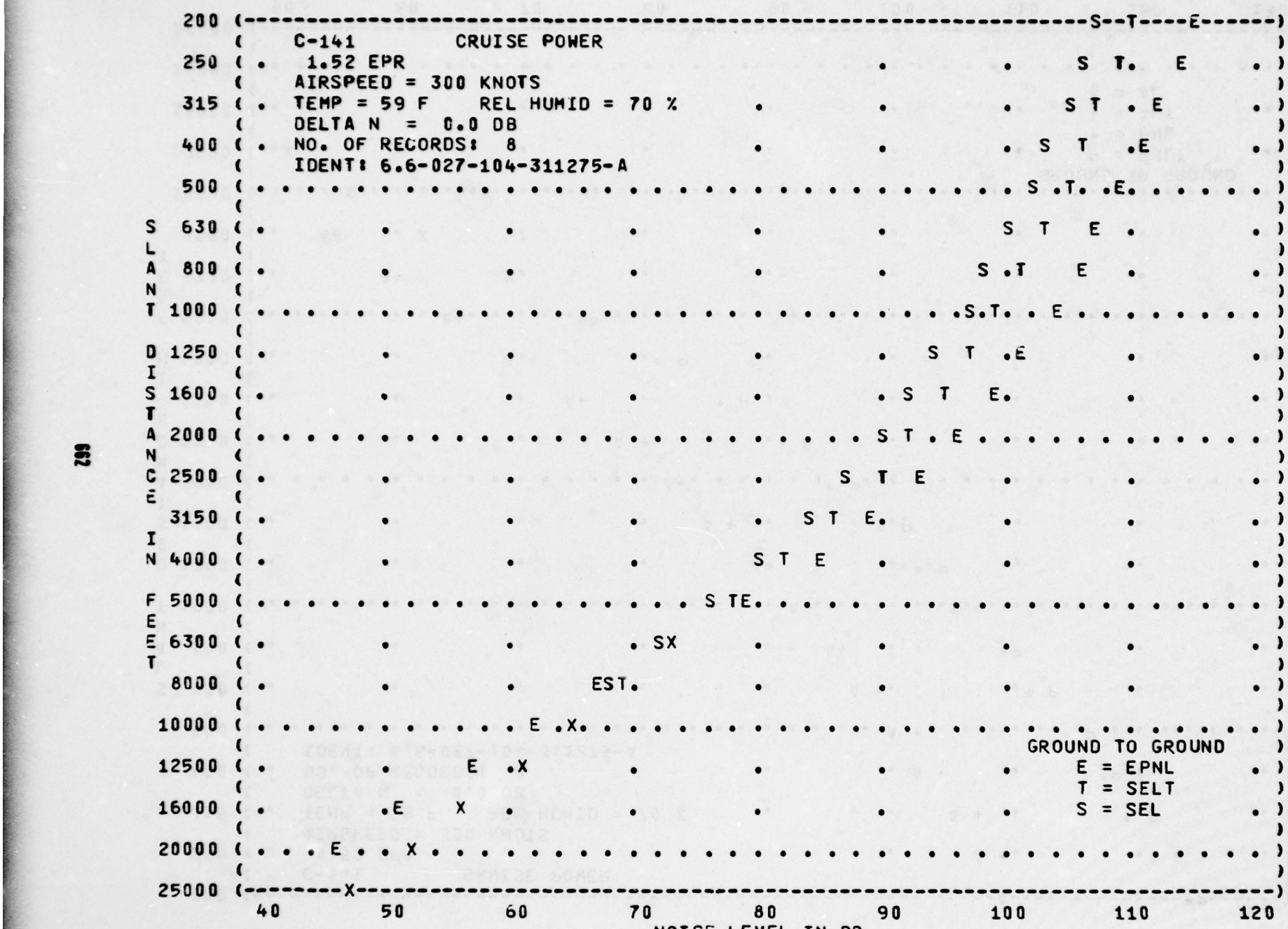
DELTA N = 0.0 DB

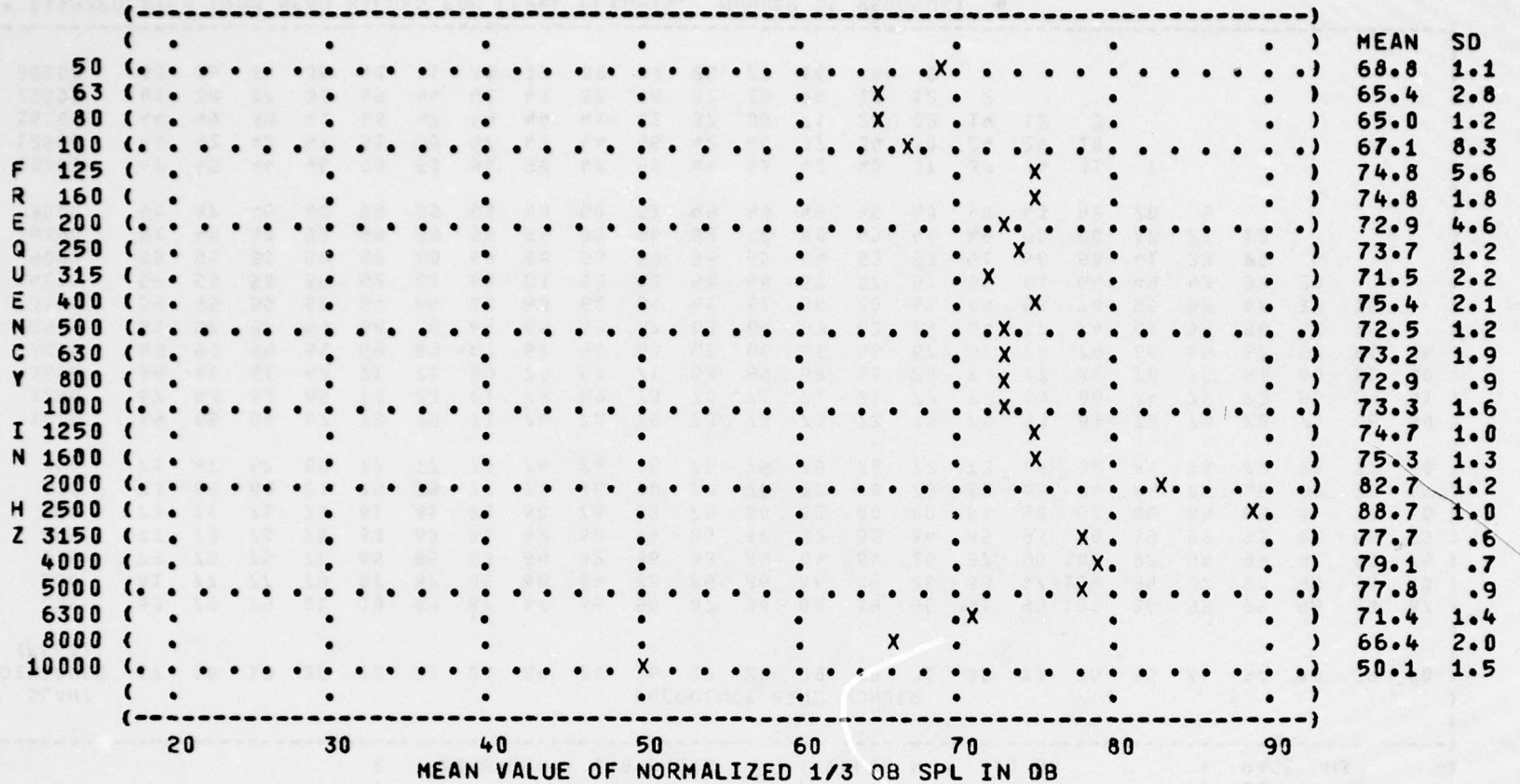
A/C CODE: 027
OPS CODE: 104
PROFILE VER: A
31 DEC 75
PAGE M2

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	109.3	111.1	123.7	125.5	107.3	110.0	114.8
250	107.1	108.9	121.4	123.2	106.0	108.8	113.5
315	104.7	106.6	119.0	120.9	104.7	107.4	112.2
400	102.3	104.2	116.6	118.4	103.3	106.0	110.7
500	99.8	101.7	114.1	115.9	101.8	104.6	109.2
630	97.2	99.1	111.4	113.2	100.2	102.9	107.5
800	94.5	96.3	108.5	110.3	98.4	101.2	105.6
1000	91.6	93.4	105.4	107.3	96.6	99.3	103.6
1250	88.5	90.3	102.3	104.1	94.5	97.2	101.4
1600	85.2	87.0	98.9	100.7	92.2	94.9	99.0
2000	81.7	83.5	95.1	96.9	89.6	92.4	96.3
2500	77.8	79.6	91.0	92.8	86.7	89.5	93.1
3150	73.6	75.4	86.4	88.2	83.6	86.3	89.5
4000	69.1	70.6	81.2	82.6	80.0	82.3	84.7
5000	64.2	65.3	75.3	76.4	76.2	77.8	79.3
6300	59.2	59.9	68.7	69.5	72.1	73.2	73.2
8000	54.5	54.8	61.9	62.2	68.4	68.9	66.8
10000	49.7	49.7	56.2	56.2	64.6	64.6	61.5
12500	44.7	44.7	50.5	50.5	60.7	60.7	56.9
16000	39.4	39.4	43.9	43.9	56.4	56.4	51.3
20000	33.7	33.7	37.4	37.4	51.7	51.7	45.8
25000	27.7	27.7	28.8	28.8	46.6	46.6	38.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 8
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-141 CRUISE POWER
1.52 EPR
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-027-104-311275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB


C-141 CRUISE POWER
1.52 EPR
AIRSPEED = 300 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 8
IDENT: 6.6-027-104-311275-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB



C-141 APPROACH POWER 1.20 EPR

AIRSPEED = 140 KNOTS
SLANT DISTANCE = 1000 FEET
NO. OF RECORDS = 4

TEMP = 59 F
REL HUMID = 70 %
IDENT: 6.6-027-105-311275

PNLT = 109.4 PNDB
PNL = 106.4 PNDB
ALT = 95.1 DBA
AL = 92.2 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 027
OPS CODE: 105
PROFILE VER: A
31 DEC 75
PAGE H3

AIRCRAFT: C-141

OPERATION:
APPROACH POWER
1.20 EPR
AIRSPEED = 140 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	83	79	79	81	89	89	87	88	86	90	87	88	88	89	90	91	99	106	96	99	99	96	96	87
250	81	77	77	79	87	87	85	86	84	88	85	86	86	86	88	89	97	104	94	97	97	93	93	83
315	79	75	75	77	85	85	83	84	82	86	83	84	84	84	86	87	95	102	92	94	94	90	90	79
400	77	73	73	75	83	83	81	82	80	84	81	82	82	82	84	85	93	99	89	92	91	87	86	75
500	75	71	71	73	81	81	79	80	78	82	79	80	80	80	82	83	90	97	86	89	89	84	82	70
630	73	69	69	71	79	79	77	78	76	80	77	78	77	78	79	80	88	94	84	86	85	80	78	65
800	71	67	67	69	77	77	75	76	74	78	75	75	75	76	77	78	85	92	81	83	82	76	72	58
1000	69	65	65	67	75	75	73	74	72	75	73	73	73	73	75	75	83	89<	78	79	78	71	66	50
1250	67	63	63	65	73	73	71	72	69	73	70	71	71	71	72	73	80	86	74	75	73	66	59	41
1600	65	61	61	63	71	71	69	70	67	71	68	69	68	68	70	70	77	82	70	70	68	60	51	30
2000	63	59	59	61	69	69	67	67	65	69	66	66	66	66	67	67	74	79	66	65	62	52	41	16
2500	61	57	57	59	66	66	64	65	63	67	63	64	63	63	64	64	70	74	61	59	56	43	29	
3150	59	55	55	57	64	64	62	63	60	64	61	61	60	60	61	60	66	70	55	52	48	33	15	
4000	57	53	53	55	62	62	60	61	58	62	58	58	57	57	57	56	61	64	49	43	38	20		
5000	55	51	50	52	60	60	58	58	56	59	55	55	54	53	53	51	56	58	41	33	26	4		
6300	52	49	48	50	58	58	55	56	53	56	52	52	50	49	48	46	50	50	32	21	12			
8000	50	47	46	48	55	55	53	53	50	53	49	49	46	45	43	40	43	42	20	6				
10000	48	45	44	46	53	53	50	50	47	50	46	45	42	40	37	33	34	31	7					
12500	46	42	42	43	51	50	47	47	44	46	42	40	37	34	30	24	24	18						
16000	44	40	39	41	48	47	44	44	41	42	37	35	31	27	22	14	12	3						
20000	41	38	37	38	45	44	41	41	37	38	32	29	24	18	12	2								
25000	39	35	34	36	42	41	38	37	32	33	26	22	16	8	0									

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: C-141

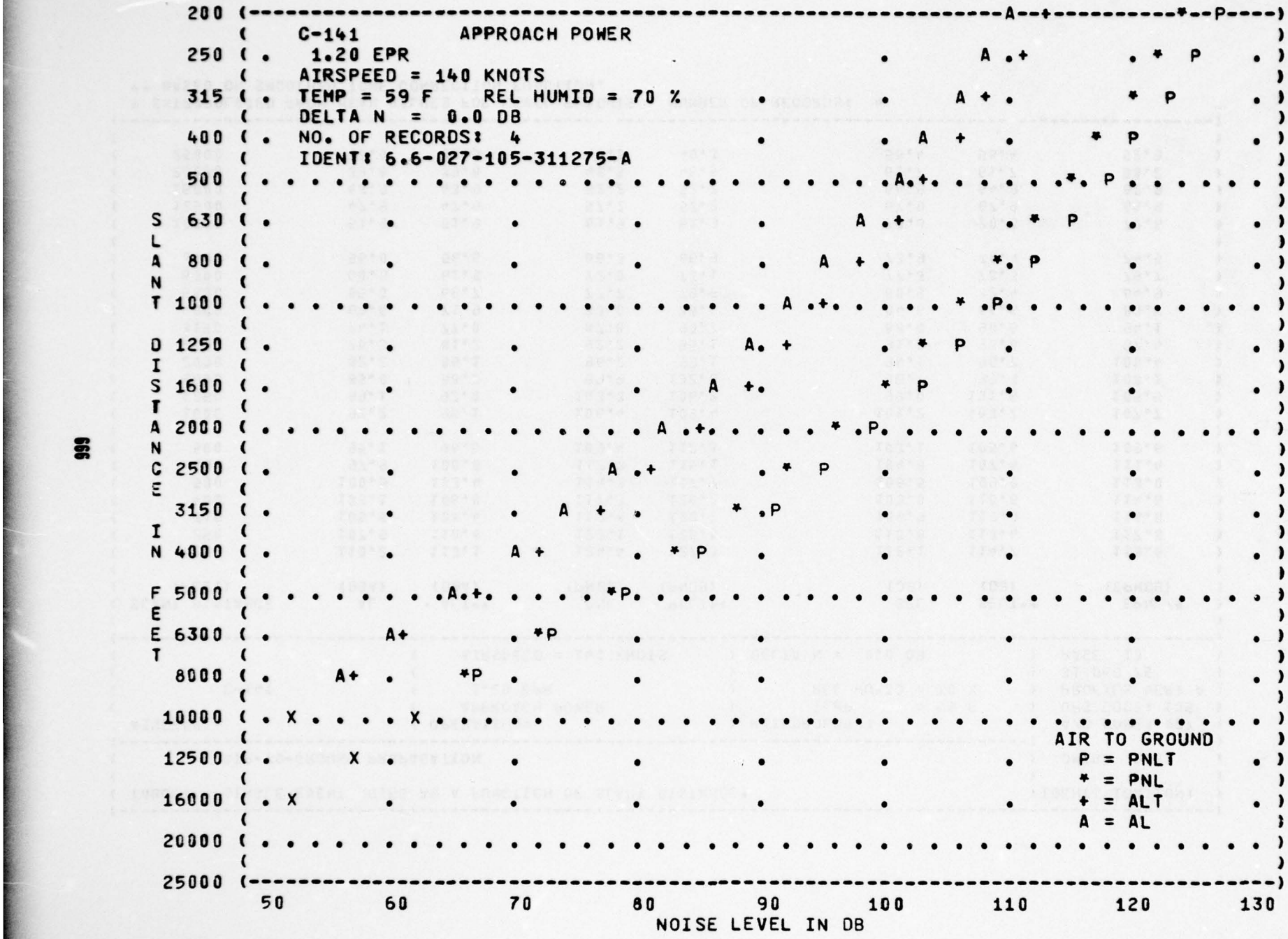
OPERATION: APPROACH POWER, 1.20 EPR, AIRSPEED = 140 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 027
OPS CODE: 105
PROFILE VER: A
31 DEC 75
PAGE I3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	110.2	113.1	124.4	127.3	112.1	114.7	118.6
250	107.9	110.8	122.1	125.0	110.8	113.4	117.3
315	105.5	108.4	119.8	122.7	109.5	112.0	116.0
400	103.1	106.0	117.3	120.2	108.0	110.6	114.6
500	100.5	103.4	114.8	117.7	106.5	109.0	113.0
630	97.9	100.8	112.2	115.1	104.8	107.4	111.4
800	95.1	98.0	109.4	112.3	103.1	105.6	109.6
1000	92.2	95.1	106.4	109.4	101.2	103.7	107.7
1250	89.1	92.0	103.3	106.2	99.0	101.6	105.5
1600	85.8	88.7	99.9	102.8	96.7	99.3	103.1
2000	82.2	85.1	96.2	99.1	94.1	96.7	100.4
2500	78.3	81.2	92.2	95.1	91.2	93.8	97.4
3150	74.1	77.0	87.8	90.7	88.0	90.6	94.1
4000	69.6	71.9	83.0	85.4	84.6	86.6	89.7
5000	65.0	66.7	77.7	79.5	80.9	82.4	84.9
6300	60.3	61.5	72.0	73.1	77.3	78.3	79.7
8000	56.0	56.6	66.3	66.9	73.9	74.4	74.5
10000	51.9	51.9	61.9	61.9	70.8	70.8	70.6
12500	47.9	47.9	57.2	57.2	67.9	67.9	66.9
16000	43.9	43.9	52.2	52.2	64.9	64.9	62.9
20000	39.8	39.8	46.5	46.5	61.7	61.7	58.2
25000	35.5	35.5	40.3	40.3	58.4	58.4	52.9

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-141 APPROACH POWER
1.20 EPR
AIRSPEED = 140 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-027-105-311275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

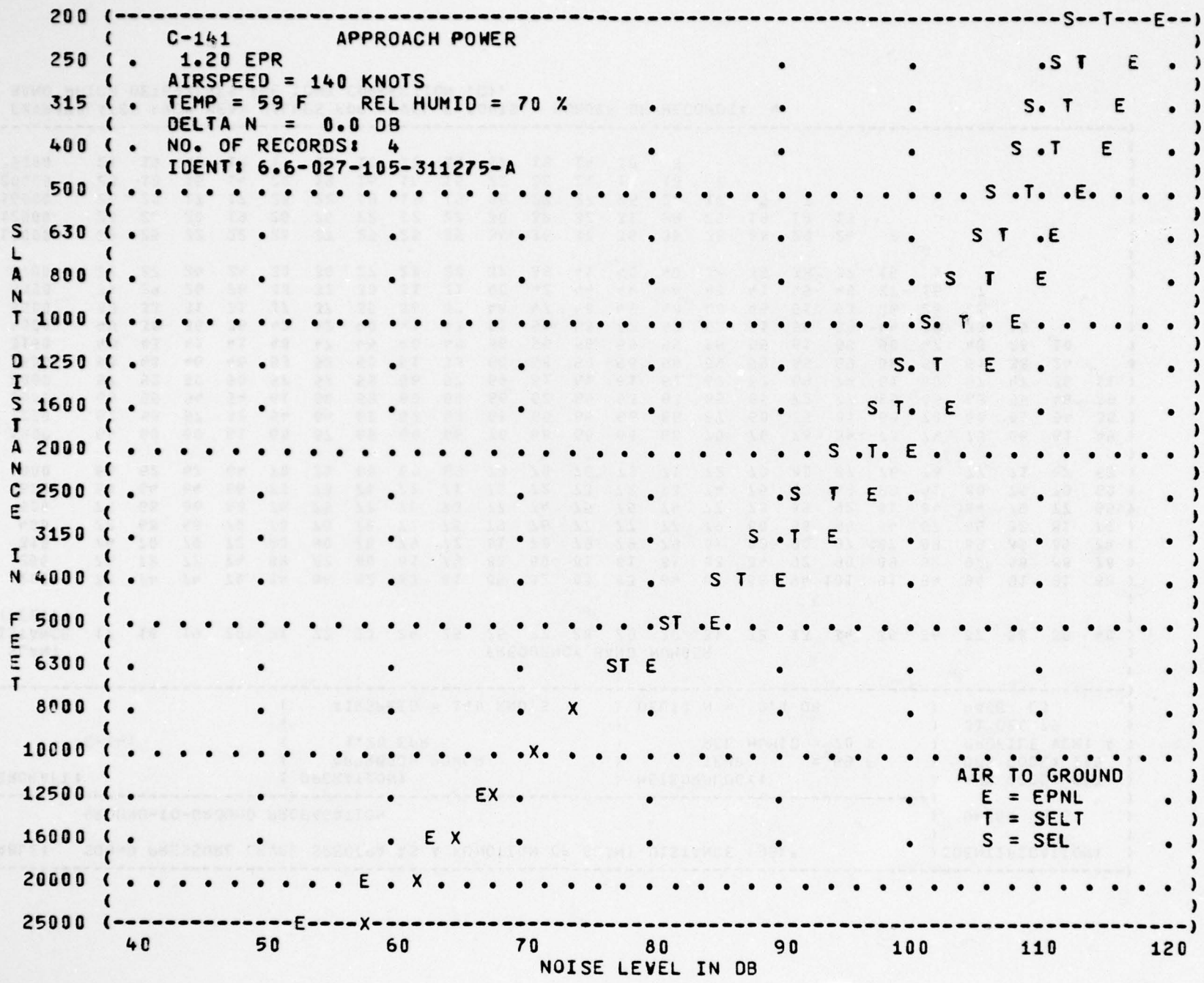

C-141 APPROACH POWER
1.20 EPR
AIRSPEED = 140 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-027-105-311275-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-141

OPERATION:
APPROACH POWER
1.20 EPR
AIRSPEED = 140 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 027
OPS CODE: 105
PROFILE VER: A
31 DEC 75
PAGE L3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	78	74	74	76	84	84	82	83	81	85	82	83	83	84	85	86	94	101	91	94	94	91	91	82
250	76	72	72	74	82	82	80	81	79	83	80	81	81	81	83	84	92	99	89	92	92	88	88	78
315	74	70	70	72	80	80	78	79	77	81	78	79	79	79	81	82	90	97	87	89	89	85	85	74
400	72	68	68	70	78	78	76	77	75	79	76	77	77	77	79	80	88	94	84	87	86	82	81	70
500	70	66	66	68	76	75	73	75	73	77	74	75	75	75	77	78	85	92	81	84	84	79	77	65
630	68	64	64	66	73	73	71	72	71	75	72	73	72	73	74	75	83	89	79	81	80	75	73	60
800	66	62	62	64	70	70	68	69	69	73	70	70	70	71	72	73	80	87	76	78	77	71	67	53
1000	64	60	60	61	68	67	65	66	66	70	68	68	68	68	70	70	78	84<	73	74	73	66	61	45
1250	62	58	57	58	64	64	62	63	63	68	65	66	66	66	67	68	75	81	69	70	68	61	54	36
1600	60	55	54	54	61	60	59	60	60	66	63	64	63	63	65	65	72	77	65	65	63	55	46	25
2000	57	52	50	50	57	57	55	56	57	64	61	61	61	61	62	62	69	74	61	60	57	47	36	11
2500	53	48	46	46	53	52	50	51	53	60	58	59	58	58	59	59	65	69	56	54	51	38	24	
3150	49	43	41	41	48	47	45	46	48	56	55	56	55	55	56	55	61	65	50	47	43	28	10	
4000	45	38	36	36	42	42	40	41	43	51	51	53	52	52	52	51	56	59	44	38	33	15		
5000	39	33	31	31	37	37	35	36	37	46	47	48	49	48	48	46	51	53	36	28	21			
6300	34	29	26	26	33	32	30	31	31	40	42	44	44	44	43	41	45	45	27	16	7			
8000	32	27	24	24	30	30	27	28	28	37	39	41	40	40	38	35	38	37	15	1				
10000	30	25	22	22	28	27	25	25	25	34	36	37	36	35	32	28	29	26	2					
12500	28	22	20	19	26	25	22	22	22	30	32	32	31	29	25	19	19	13						
16000	26	20	17	17	23	22	19	19	19	26	27	27	25	22	17	9	7							
20000	23	18	15	14	20	19	16	16	15	22	22	21	18	13	7									
25000	21	15	12	12	17	16	12	12	10	17	16	14	10	3										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

AD-A053 700 AEROSPACE MEDICAL RESEARCH LAB WRIGHT-PATTERSON AFB OHIO F/G 1/2
COMMUNITY NOISE EXPOSURE RESULTING FROM AIRCRAFT OPERATIONS. VO--ETC(U)
NOV 77 J D SPEAKMAN, R G POWELL, R A LEE
UNCLASSIFIED AMRL-TR-73-110-VOL-2 NL

8 OF 8
AD A053700

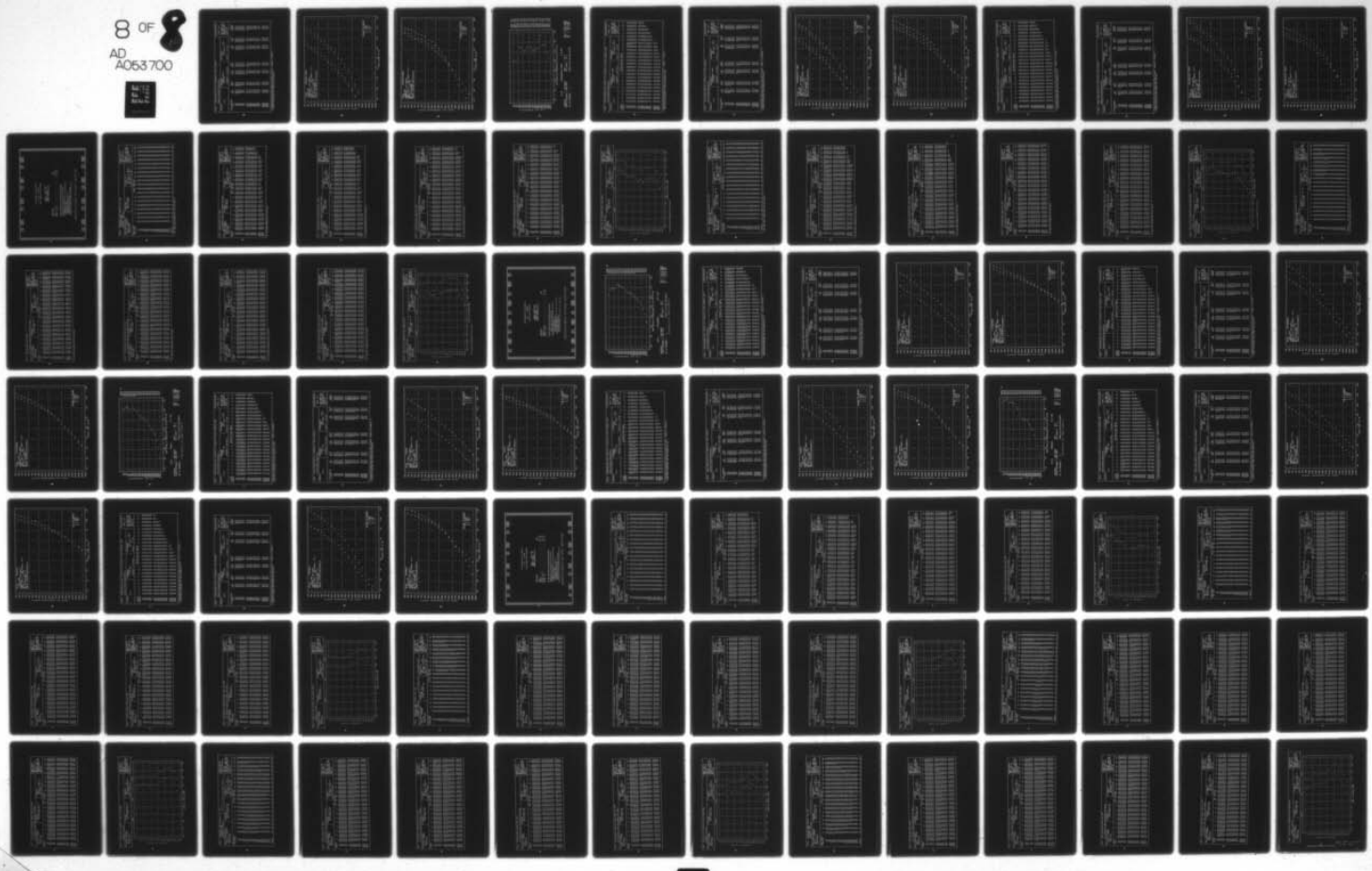


TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-141

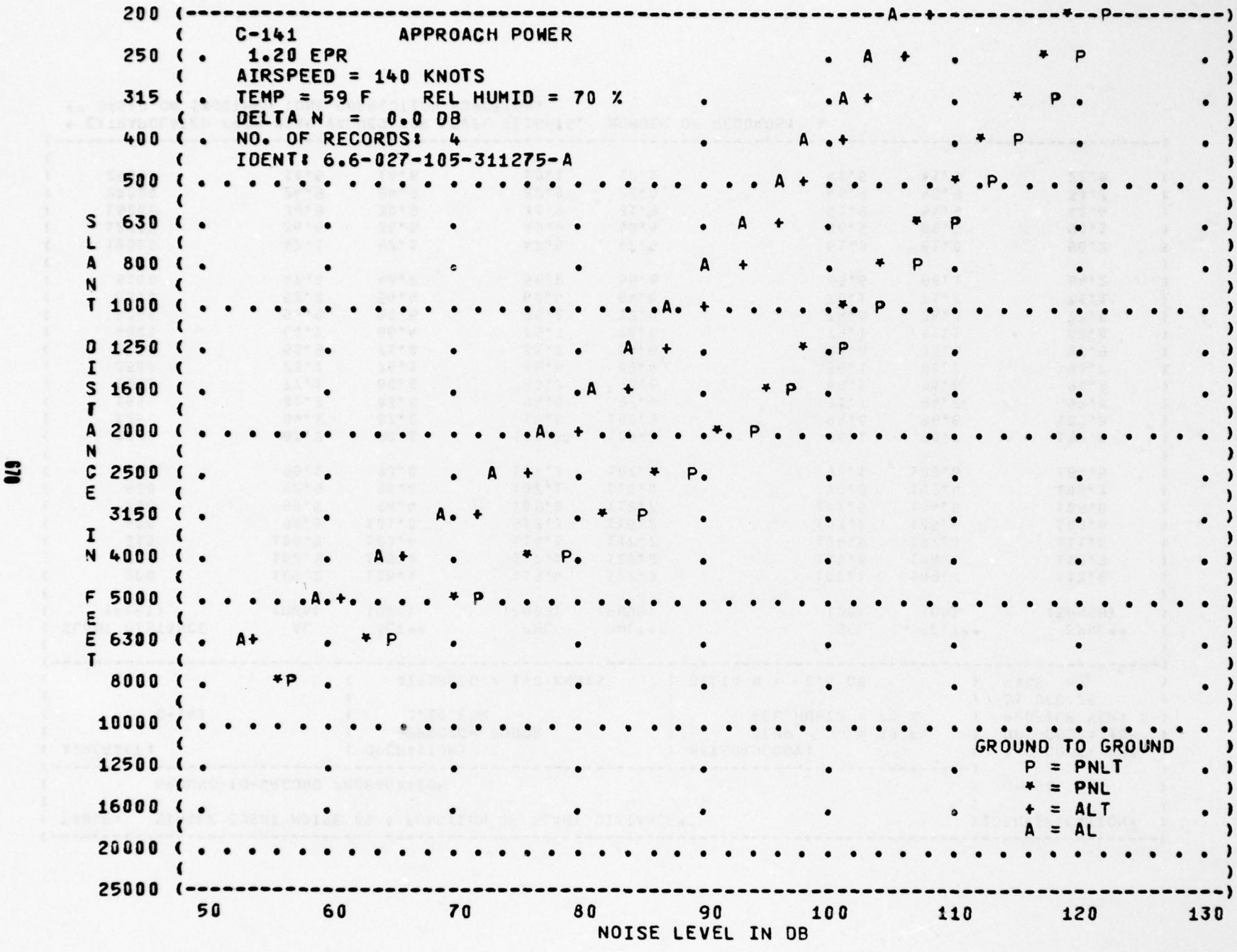
OPERATION:
APPROACH POWER
1.20 EPR
AIRSPEED = 140 KNOTS

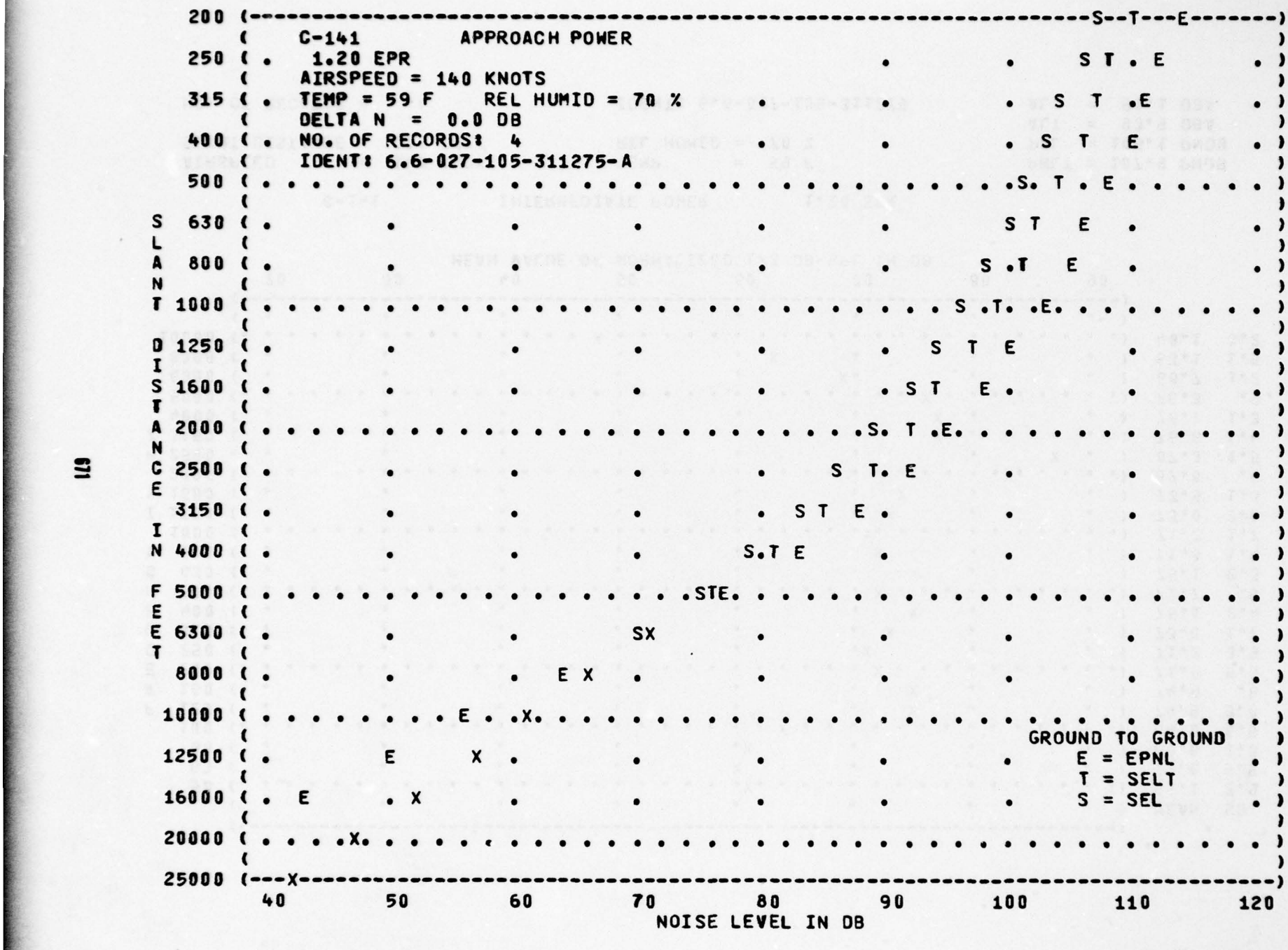
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

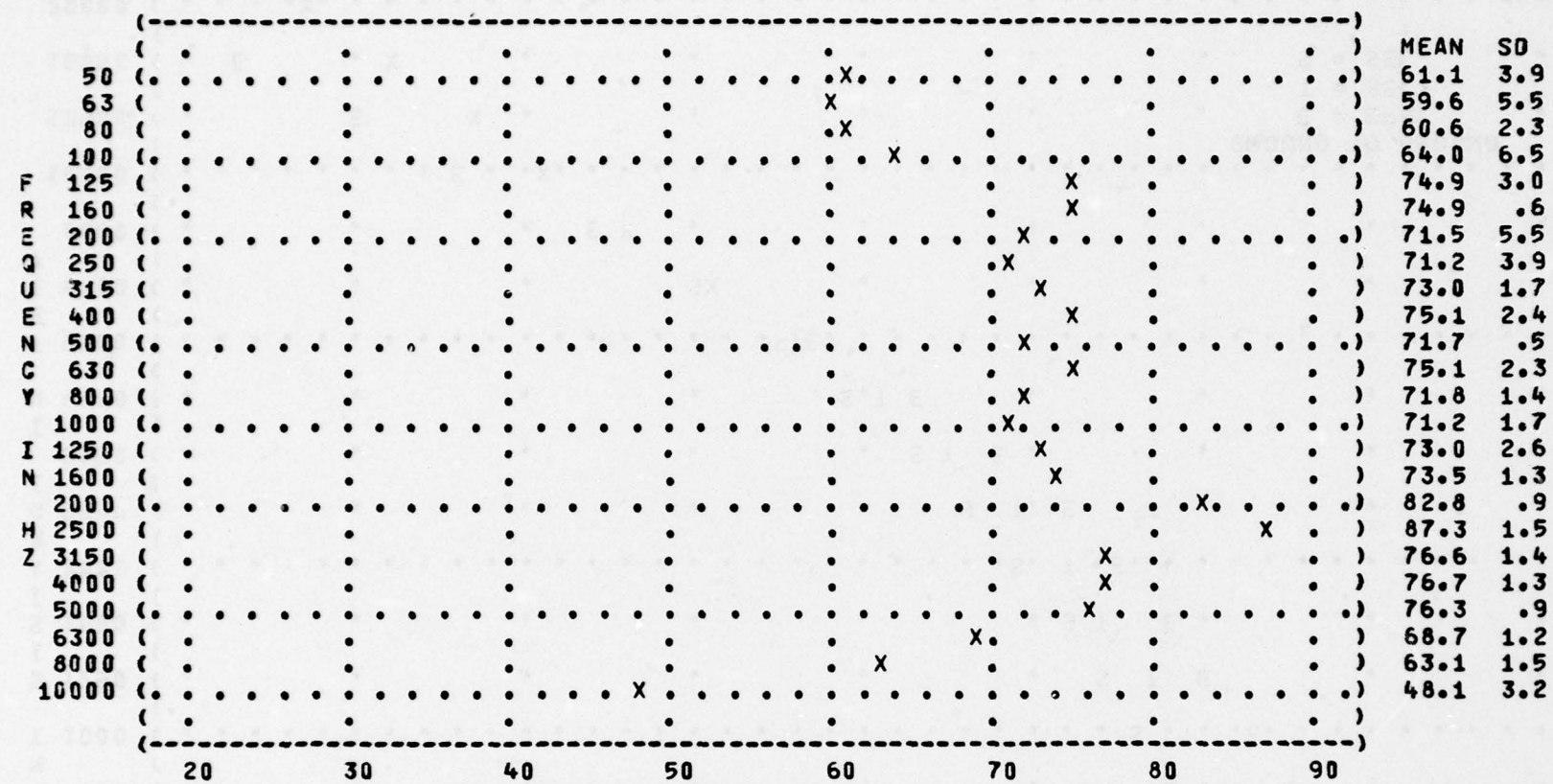
A/C CODE: 027
OPS CODE: 105
PROFILE VER: A
31 DEC 75
PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	105.2	108.1	119.4	122.3	107.1	109.7	113.6
250	102.9	105.8	117.1	120.0	105.8	108.4	112.3
315	100.5	103.4	114.8	117.7	104.5	107.0	111.0
400	98.1	101.0	112.3	115.2	103.0	105.6	109.6
500	95.5	98.4	109.8	112.7	101.5	104.0	108.0
630	92.9	95.8	107.1	110.0	99.8	102.4	106.3
800	90.1	93.0	104.3	107.2	98.1	100.6	104.5
1000	87.2	90.1	101.3	104.2	96.1	98.7	102.5
1250	84.1	87.0	98.0	100.9	94.0	96.6	100.3
1600	80.7	83.6	94.5	97.4	91.7	94.2	97.8
2000	77.1	80.0	90.7	93.6	89.1	91.6	94.9
2500	73.2	76.1	86.4	89.4	86.1	88.7	91.7
3150	68.9	71.8	81.7	84.6	82.8	85.4	87.9
4000	64.1	66.4	76.3	78.6	79.1	81.1	83.0
5000	58.9	60.6	70.2	72.0	74.8	76.3	77.5
6300	53.2	54.4	63.4	64.6	70.1	71.2	71.1
8000	47.6	48.2	56.0	56.6	65.6	66.1	64.2
10000	42.1	42.1	47.5	47.5	61.0	61.0	56.2
12500	36.6	36.6	40.4	40.4	56.5	56.5	50.1
16000	30.9	30.9	31.9	31.9	51.9	51.9	42.6
20000	24.9	24.9	22.0	22.0	46.9	46.9	33.7
25000	18.6	18.6	10.1	10.1	41.5	41.5	22.8

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-141 APPROACH POWER
1.20 EPR
AIRSPEED = 140 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-027-105-311275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


C-141 APPROACH POWER
1.20 EPR
AIRSPEED = 140 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-027-105-311275-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB



C-141 INTERMEDIATE POWER 1.20 EPR

AIRSPEED = 140 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 4

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-027-106-311275

PNLT = 107.9 PNDB
PNL = 105.1 PNDB
ALT = 93.9 DBA
AL = 91.1 DBA

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: C-141

OPERATION:
INTERMEDIATE POWER
1.20 EPR
AIRSPEED = 140 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 027
OPS CODE: 106
PROFILE VER: A
31 DEC 75
PAGE H4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	75	74	75	78	89	89	86	86	87	90	86	90	87	86	88	89	99	105	95	97	98	93	92	84
250	73	72	73	76	87	87	84	83	85	88	84	88	85	84	86	87	97	102	93	94	95	90	89	81
315	71	70	71	74	85	85	82	81	83	85	82	86	83	82	84	85	95	100	90	92	93	88	86	77
400	69	68	69	72	83	83	80	79	81	83	80	84	81	80	82	83	93	98	88	89	90	84	82	73
500	67	66	67	70	81	81	78	77	79	81	78	82	78	78	80	81	90	95	85	87	87	81	79	68
630	65	64	65	68	79	79	76	75	77	79	76	79	76	76	78	78	88	93	83	84	84	77	74	62
800	63	62	63	66	77	77	74	73	75	77	74	77	74	73	75	76	85	90	80	80	80	73	69	56
1000	61	60	61	64	75	75	72	71	73	75	72	75	72	71	73	74	83	87<	77	77	76	69	63	48
1250	59	58	59	62	73	73	69	69	71	73	69	73	69	69	70	71	80	84	73	73	72	63	56	39
1600	57	56	57	60	71	71	67	67	69	71	67	71	67	66	68	68	77	81	69	68	67	57	48	28
2000	55	53	54	58	69	69	65	65	66	68	65	68	65	64	65	65	74	77	65	63	61	50	38	15
2500	53	51	52	56	67	67	63	63	64	66	63	66	62	61	62	62	70	73	60	57	54	41	27	
3150	51	49	50	54	64	64	61	60	62	64	60	63	59	58	59	58	66	68	55	50	46	31	12	
4000	49	47	48	52	62	62	59	58	60	61	57	60	56	55	55	54	62	63	48	41	37	18		
5000	47	45	46	49	60	60	56	56	57	59	55	57	53	51	51	50	56	57	40	31	26	3		
6300	45	43	44	47	58	58	54	53	55	56	52	54	49	47	47	45	50	50	31	19	12			
8000	43	41	42	45	56	55	51	51	52	53	49	51	46	43	42	39	43	41	20	5				
10000	40	39	40	43	53	53	49	48	49	50	45	47	41	38	36	32	35	30	7					
12500	38	37	37	40	51	50	46	45	46	46	41	42	36	32	29	23	25	18						
16000	36	34	35	38	48	47	43	42	42	42	37	37	30	25	21	13	13	2						
20000	34	32	32	35	45	44	40	38	38	38	32	31	23	17	11	1								
25000	31	29	30	33	42	41	36	34	34	33	26	24	15	7										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: C-141

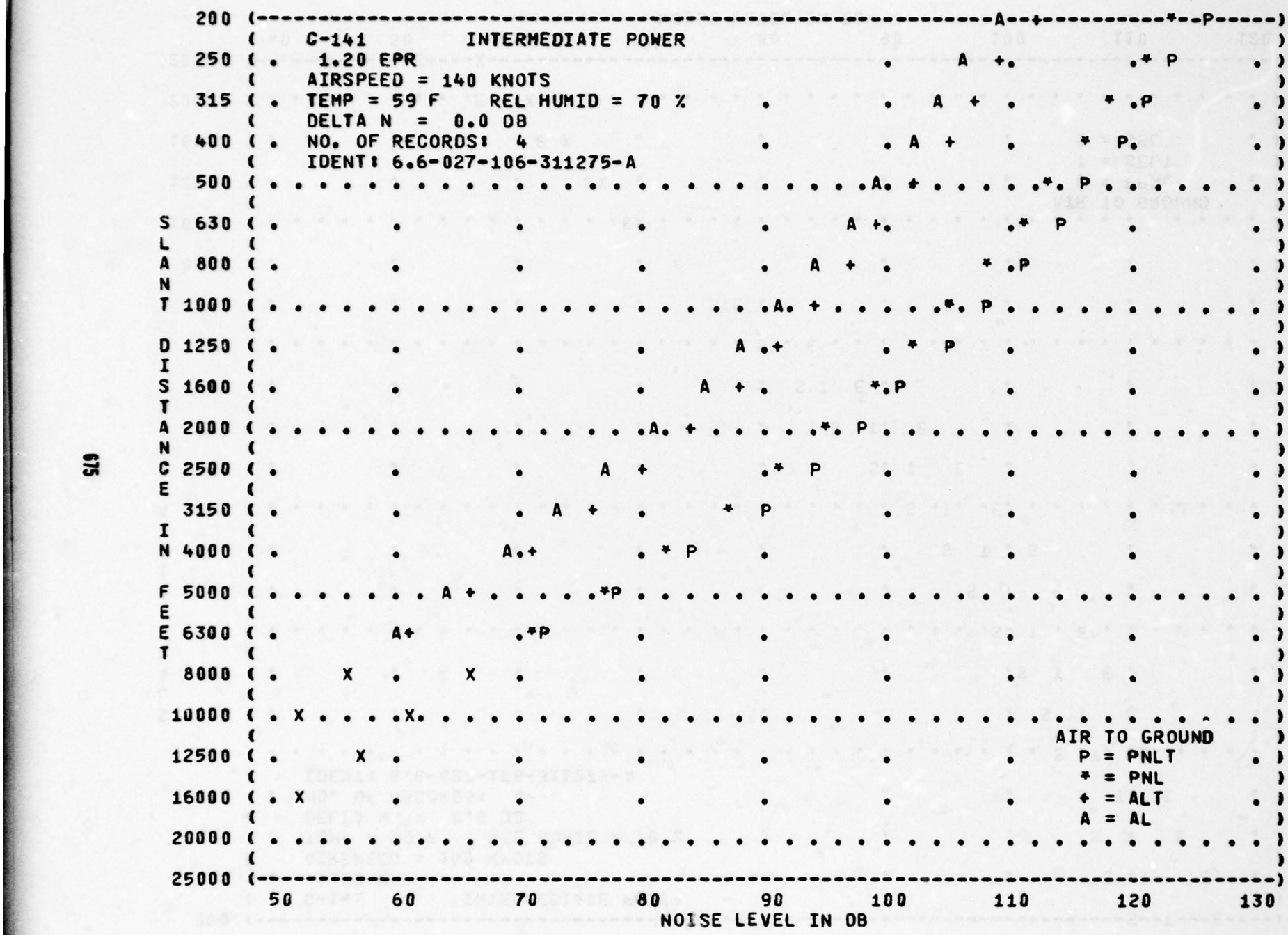
OPERATION: INTERMEDIATE POWER, 1.20 EPR, AIRSPEED = 140 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 027
OPS CODE: 106
PROFILE VER: A
31 DEC 75
PAGE I4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	108.7	111.5	122.9	125.7	109.7	112.7	116.8
250	106.5	109.2	120.6	123.4	108.5	111.4	115.5
315	104.1	106.9	118.3	121.1	107.1	110.1	114.2
400	101.7	104.5	115.9	118.7	105.7	108.7	112.8
500	99.2	102.0	113.4	116.2	104.3	107.2	111.3
630	96.6	99.4	110.8	113.6	102.7	105.6	109.7
800	93.9	96.7	108.0	110.8	100.9	103.9	107.9
1000	91.1	93.9	105.1	107.9	99.1	102.0	106.0
1250	88.0	90.8	102.0	104.8	97.0	100.0	103.9
1600	84.7	87.5	98.6	101.4	94.8	97.7	101.6
2000	81.2	84.0	95.0	97.8	92.3	95.2	98.9
2500	77.5	80.2	91.1	93.9	89.5	92.4	96.0
3150	73.4	76.2	86.8	89.6	86.4	89.3	92.7
4000	69.0	71.2	82.0	84.3	83.0	85.4	88.4
5000	64.5	66.2	76.8	78.5	79.5	81.3	83.6
6300	60.0	61.1	71.1	72.2	76.0	77.2	78.3
8000	55.8	56.3	65.7	66.2	72.8	73.4	73.2
10000	51.8	51.8	61.4	61.4	69.8	69.8	69.4
12500	47.8	47.8	56.8	56.8	66.8	66.8	65.8
16000	43.8	43.8	51.8	51.8	63.8	63.8	61.8
20000	39.6	39.6	46.3	46.3	60.6	60.6	57.3
25000	35.3	35.3	39.9	39.9	57.3	57.3	51.9

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-141 INTERMEDIATE POWER
1.20 EPR
AIRSPEED = 140 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-027-106-311275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

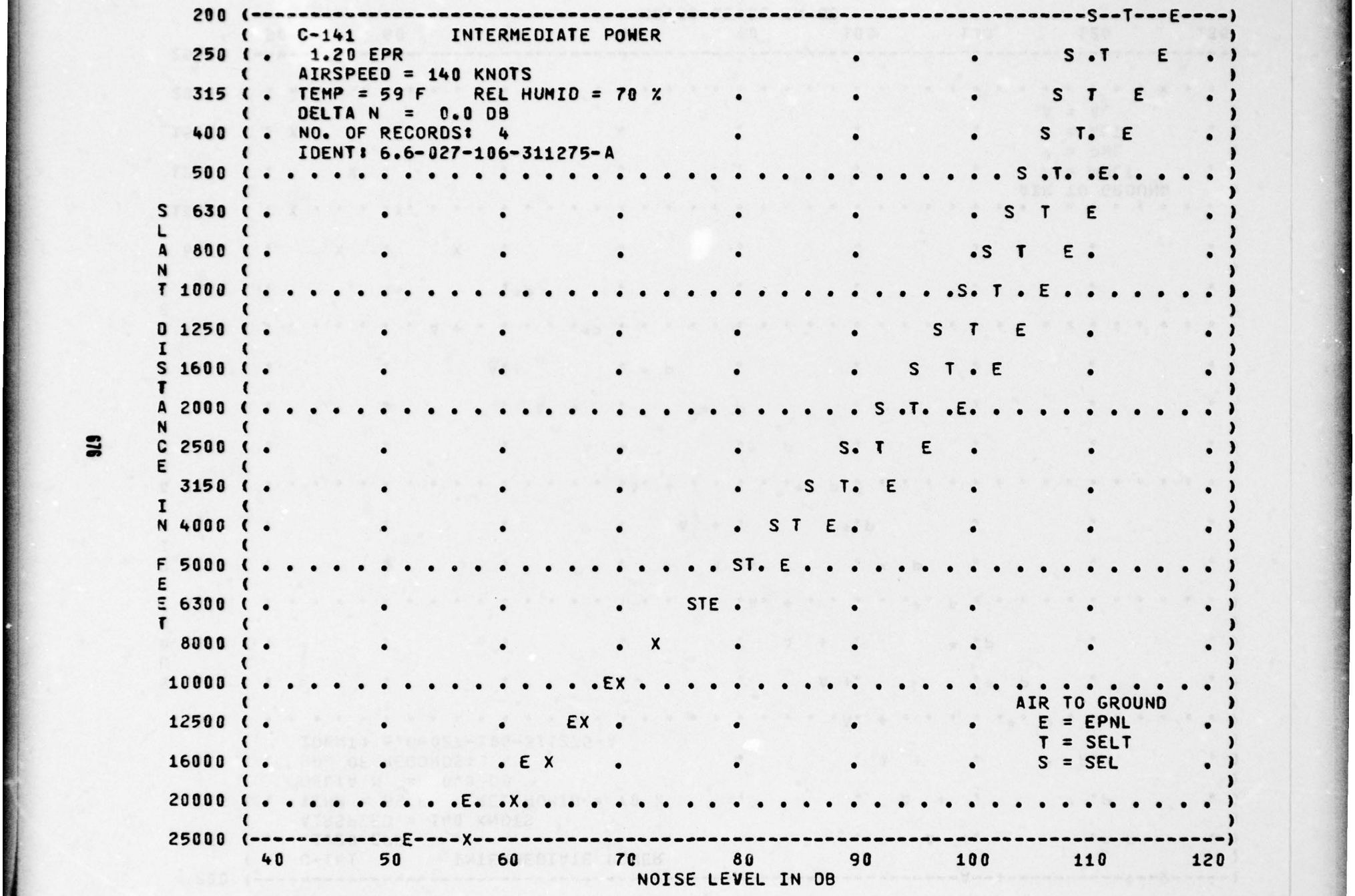

C-141 INTERMEDIATE POWER
1.20 EPR
AIRSPEED = 140 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-027-106-311275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-141

OPERATION:
INTERMEDIATE POWER
1.20 EPR
AIRSPEED = 140 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 027
OFS CODE: 106
PROFILE VER: A
31 DEC 75
PAGE L4

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	70	69	70	73	84	84	81	81	82	85	81	85	82	81	83	84	94	100	90	92	93	88	87	79
250	68	67	68	71	82	82	79	78	80	83	79	83	80	79	81	82	92	97	88	89	90	85	84	76
315	66	65	66	69	80	80	77	76	78	80	77	81	78	77	79	80	90	95	85	87	88	83	81	72
400	64	63	64	67	78	78	75	74	76	78	75	79	76	75	77	78	88	93	83	84	85	79	77	68
500	62	61	62	65	76	75	72	72	74	76	73	77	73	73	75	76	85	90	80	82	82	76	74	63
630	60	59	60	63	73	73	69	70	72	74	71	74	71	71	73	73	83	88	78	79	79	72	69	57
800	58	57	58	61	71	70	67	67	70	72	69	72	69	68	70	71	80	85	75	75	75	68	64	51
1000	56	55	56	58	68	67	64	64	68	70	67	70	67	66	68	69	78	82<	72	72	71	64	58	43
1250	54	53	53	55	64	64	61	61	65	68	64	68	64	64	65	66	75	79	68	68	67	58	51	34
1600	52	49	49	51	61	61	57	57	62	66	62	66	62	61	63	63	72	76	64	63	62	52	43	23
2000	49	46	46	47	57	57	53	53	58	63	60	63	60	59	60	60	69	72	60	58	56	45	33	10
2500	45	42	41	43	53	52	49	49	54	60	57	61	57	56	57	57	65	68	55	52	49	36	22	
3150	41	37	37	38	48	47	44	44	50	56	54	58	54	53	54	53	61	63	50	45	41	26	7	
4000	37	32	31	33	42	42	38	38	44	51	50	55	51	50	50	49	57	58	43	36	32	13		
5000	32	28	27	28	38	37	33	33	38	45	46	50	48	46	46	45	51	52	35	26	21			
6300	27	23	22	23	33	32	28	28	33	40	42	46	43	42	42	40	45	45	26	14	7			
8000	25	21	20	21	31	30	26	26	30	37	39	43	40	38	37	34	38	36	15					
10000	22	19	18	19	28	27	23	23	27	34	35	39	35	33	31	27	30	25	2					
12500	20	17	15	16	26	25	21	20	24	30	31	34	30	27	24	18	20	13						
16000	18	14	13	14	23	22	18	17	20	26	27	29	24	20	16	8	8							
20000	16	12	10	11	20	19	14	13	16	22	22	23	17	12	6									
25000	13	9	8	9	17	16	11	9	12	17	16	16	9	2										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
C-141

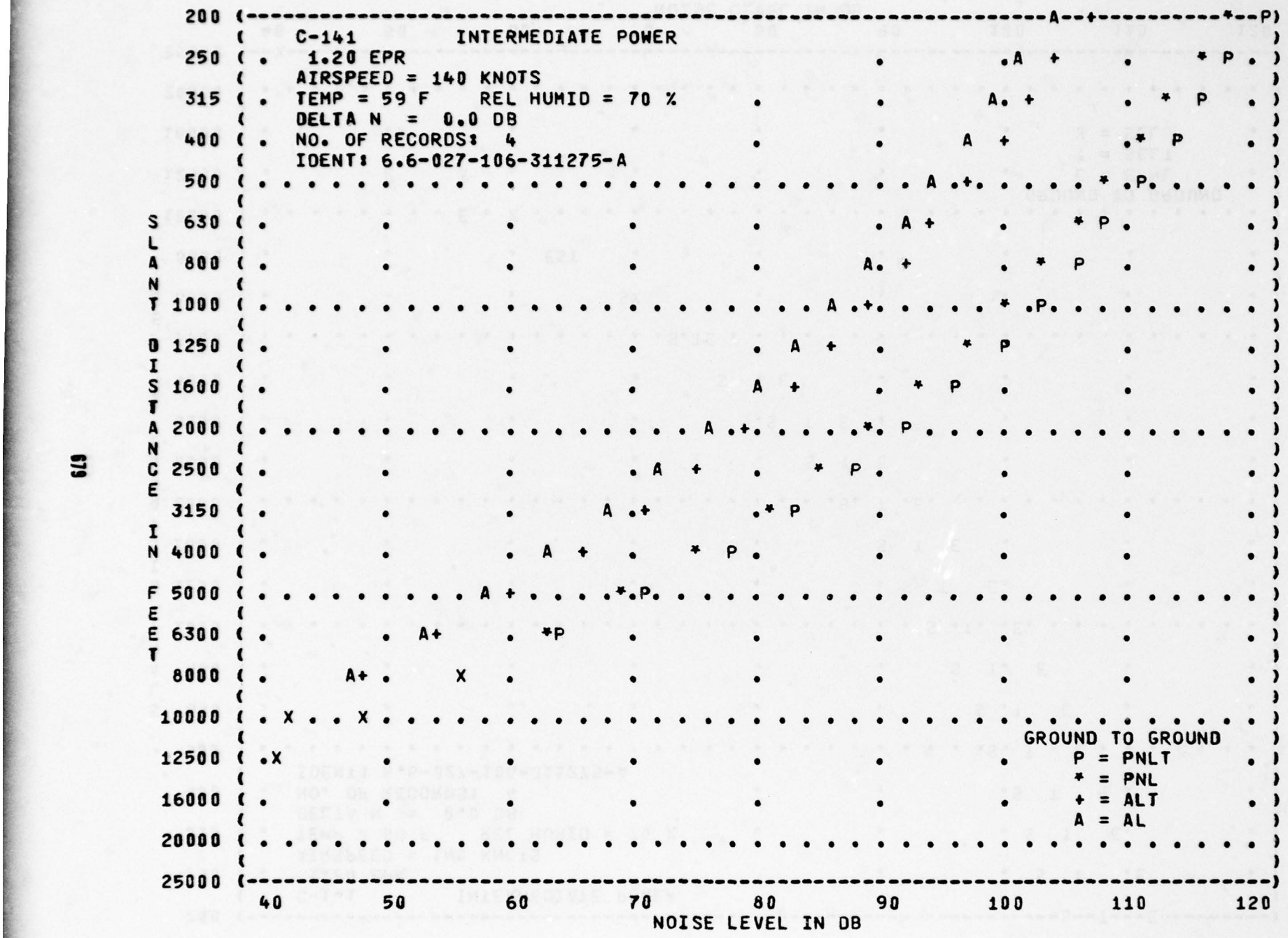
OPERATION:
INTERMEDIATE POWER
1.20 EPR
AIRSPEED = 140 KNOTS

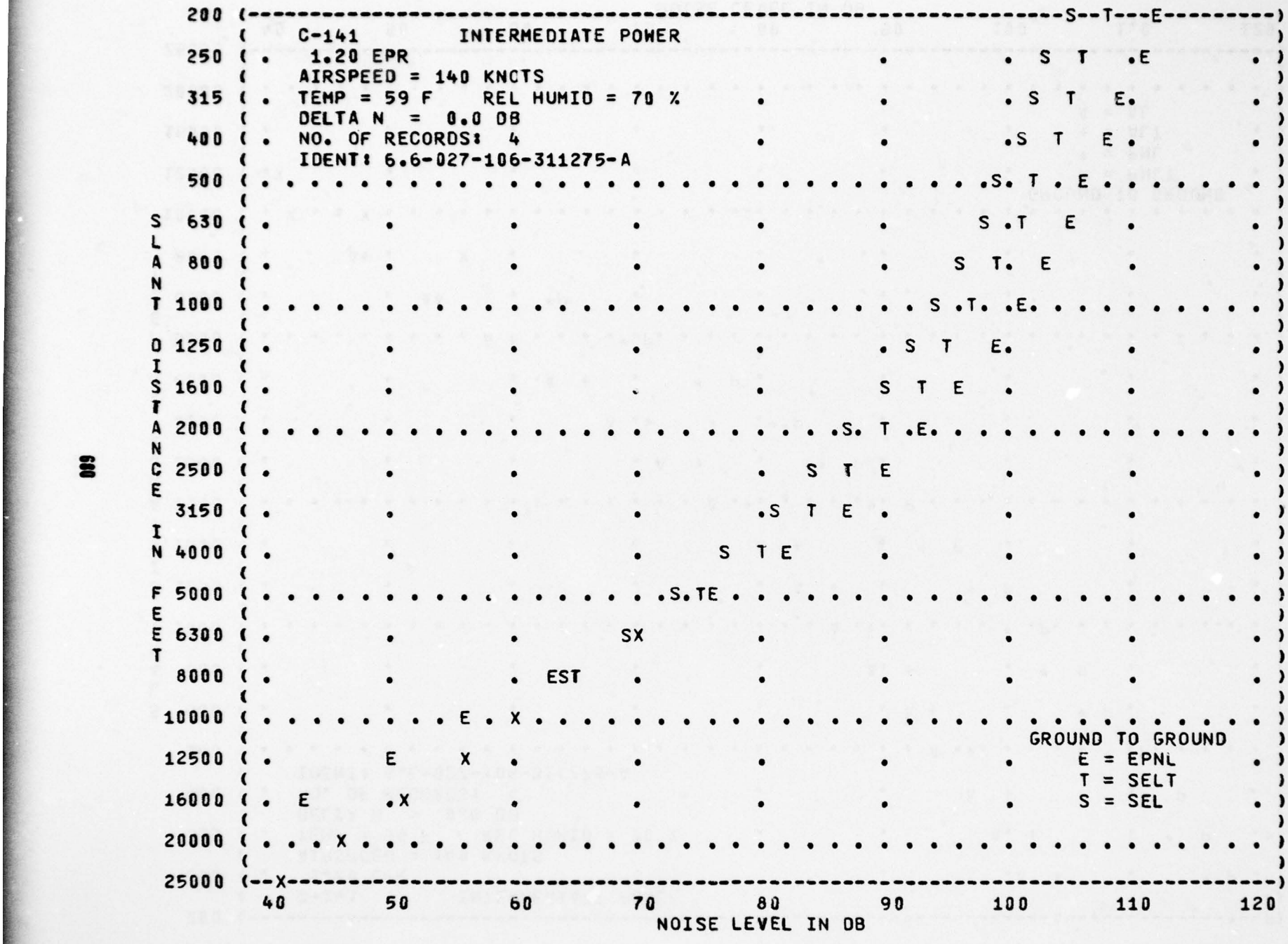
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 027
OPS CODE: 106
PROFILE VER: A
31 DEC 75
PAGE M4

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	103.7	106.5	117.9	120.7	104.7	107.7	111.8
250	101.5	104.2	115.6	118.4	103.5	106.4	110.5
315	99.1	101.9	113.3	116.1	102.1	105.1	109.2
400	96.7	99.5	110.9	113.7	100.7	103.7	107.8
500	94.2	97.0	108.4	111.1	99.3	102.2	106.3
630	91.6	94.4	105.7	108.5	97.7	100.6	104.6
800	88.9	91.7	102.9	105.7	95.9	98.9	102.8
1000	86.1	88.8	99.9	102.7	94.1	97.0	100.9
1250	83.0	85.8	96.7	99.5	92.0	94.9	98.7
1600	79.7	82.5	93.3	96.1	89.7	92.7	96.2
2000	76.2	79.0	89.5	92.3	87.2	90.1	93.4
2500	72.3	75.1	85.3	88.1	84.4	87.3	90.2
3150	68.1	70.9	80.6	83.4	81.1	84.1	86.6
4000	63.5	65.7	75.4	77.6	77.5	79.8	81.7
5000	58.3	60.0	69.4	71.1	73.3	75.0	76.2
6300	52.7	53.8	62.7	63.8	68.7	69.9	69.8
8000	47.2	47.8	55.5	56.1	64.2	64.8	63.1
10000	41.9	41.9	48.0	48.0	59.9	59.9	56.0
12500	36.6	36.6	41.2	41.2	55.6	55.6	50.2
16000	31.2	31.2	33.1	33.1	51.2	51.2	43.1
20000	25.3	25.3	23.6	23.6	46.4	46.4	34.5
25000	19.0	19.0	10.1	10.1	41.0	41.0	22.1

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 4
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


C-141 INTERMEDIATE POWER
1.20 EPR
AIRSPEED = 140 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-027-106-311275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


C-141 INTERMEDIATE POWER
1.20 EPR
AIRSPEED = 140 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 4
IDENT: 6.6-027-106-311275-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

USAF C-141A AIRCRAFT C-141A AIRCRAFT C-141A AIRCRAFT C-141A AIRCRAFT USAF

NOISE PRODUCED ON THE GROUND BY

C-141A AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 74-013-001
AIRCRAFT CODE: 027
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING — PAGE

IDLE - 28% RPM . . . . . 682 - 687
70% RPM . . . . . 688 - 693
TAKEOFF - 95% RPM . . . . . 694 - 699

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
NORMALIZED SPL AT 250 FEET
NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
PERCEIVED NOISE LEVEL
TONE-CORRECTED, PERCEIVED NOISE LEVEL
A-WEIGHTED OVERALL SOUND LEVEL
TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL
NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
C-141A AIRCRAFT
ENG. TF33-P-7
GROUND RUNUP

OPERATION:
IDLE, 28% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-013-001
RUN 01
AIRCRAFT CODE 027
OPERATION CODE 04013
PROFILE VERSION A
08 APR 76
PAGE C1

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
50	65	64	65	64	65	65	63	64	63	63	64	65	64	64	63	64	64	54	44
63	70	68	69	70	71	69	70	69	67	66	68	68	67	63	64	64	62	52	42
80	73	71	71	71	69	70	70	71	69	67	67	68	65	66	65	65	63	53	43
100	73	72	74	72	72	69	70	73	69	67	67	69	67	66	67	66	63	53	43
125	71	71	71	70	68	68	68	71	68	67	66	67	65	67	66	66	64	54	44
160	72	73	72	70	70	70	70	72	67	67	67	67	67	66	65	65	62	52	42
200	73	73	72	71	69	69	74	71	66	66	66	66	66	66	64	63	63	53	43
250	75	74	74	72	71	71	76	72	68	67	66	66	67	67	66	65	65	55	45
315	77	78	76	76	73	71	74	70	68	67	67	66	67	66	66	65	65	55	45
400	79	80	79	77	73	73	74	71	68	69	66	65	65	66	64	65	66	56	46
500	79	80	79	77	73	72	74	70	68	69	66	65	65	64	64	65	64	54	44
630	80	80	79	77	71	71	73	69	69	68	65	68	68	66	67	67	65	55	45
800	82	82	80	77	72	71	73	69	70	69	65	69	70	68	68	67	67	57	47
1000	83	83	83	80	75	75	75	72	72	70	65	70	70	70	69	67	67	57	47
1250	79	80	80	78	74	74	74	70	69	68	63	68	69	69	67	65	65	55	45
1600	85	86	85	82	78	78	78	74	72	72	68	71	73	74	73	69	69	59	49
2000	85	85	84	81	78	79	79	75	73	74	72	75	76	79	79	74	74	64	54
2500	82	82	81	78	74	75	74	71	68	69	65	70	72	72	69	67	66	56	46
3150	86	87	86	81	77	78	76	76	72	73	71	75	76	75	73	70	70	60	50
4000	81	82	82	78	75	77	75	73	68	70	68	73	74	73	71	68	68	58	48
5000	78	79	79	76	73	75	72	70	67	68	65	70	72	71	68	65	65	55	45
6300	75	75	75	72	70	71	69	68	64	66	63	68	70	68	65	62	62	52	42
8000	71	72	71	68	66	67	64	63	59	61	60	67	68	66	64	60	59	49	39
10000	67	67	66	63	62	62	59	59	56	57	57	63	64	62	59	56	56	46	36
OVERALL	94	94	93	90	87	87	87	85	82	82	80	83	84	84	83	80	80	70	60

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-013-001
RUN 01
AIRCRAFT CODE 827
OPERATION CODE 04013
PROFILE VERSION A
08 APR 76
PAGE D1

NOISE SOURCE/SUBJECT:
C-141A AIRCRAFT
ENG. TF33-P-7
GROUND RUNUP

OPERATION:
IDLE, 28% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	109.8	110.3	109.8	106.1	102.2	103.0	102.2	100.7	97.3	98.1	95.9	99.5	100.2	100.2	99.3	95.7	95.4	85.3	75.0
250	107.6	108.0	107.5	103.8	100.0	100.7	99.9	98.4	95.0	95.8	93.6	97.2	97.9	98.0	97.1	93.4	93.2	83.0	72.7
315	105.2	105.7	105.1	101.5	97.6	98.3	97.6	96.1	92.6	93.5	91.2	94.8	95.5	95.7	94.8	91.1	90.9	80.7	70.4
400	102.8	103.2	102.7	99.0	95.2	95.9	95.2	93.6	90.2	91.0	88.7	92.4	93.0	93.3	92.4	88.8	88.5	78.3	68.0
500	100.3	100.7	100.2	96.5	92.6	93.3	92.7	91.1	87.7	88.5	86.2	89.8	90.4	90.8	89.9	86.3	86.0	75.8	65.4
630	97.6	98.1	97.5	93.8	89.9	90.6	90.1	88.4	85.0	85.8	83.5	87.1	87.7	88.2	87.4	83.7	83.5	73.2	62.8
800	94.8	95.2	94.7	91.0	87.1	87.8	87.4	85.5	82.1	82.9	80.6	84.2	84.8	85.5	84.7	81.0	80.8	70.4	59.9
1000	91.8	92.2	91.7	88.0	84.1	84.8	84.6	82.5	79.2	79.9	77.5	81.1	81.7	82.6	81.8	78.2	77.9	67.6	56.9
1250	88.5	89.0	88.4	84.8	80.9	81.8	81.6	79.2	76.2	76.6	74.2	77.7	78.3	79.6	78.7	75.1	74.8	64.4	53.6
1500	85.0	85.4	84.9	81.3	77.7	78.5	78.3	75.6	72.9	73.2	70.8	74.2	74.8	76.3	75.5	71.8	71.6	61.1	50.0
2000	81.1	81.6	81.0	77.8	74.1	74.9	74.6	71.6	69.4	69.6	67.2	70.6	71.2	72.7	71.9	68.2	68.0	57.4	46.0
2500	77.3	77.5	76.8	73.9	70.2	71.0	71.0	67.7	65.5	65.7	63.2	66.6	67.2	68.8	68.1	64.3	64.1	53.3	41.0
3150	73.1	73.5	72.8	69.8	66.1	66.7	66.6	63.2	61.1	61.3	58.7	62.1	62.8	64.4	63.8	59.9	59.7	48.7	35.0
4000	68.6	69.0	68.2	65.3	61.4	61.8	61.8	58.3	56.2	56.4	53.6	57.1	57.8	59.5	58.8	54.9	54.8	43.1	27.6
5000	63.6	64.0	63.2	60.3	56.2	56.3	56.7	52.6	50.6	50.7	47.5	51.4	52.2	53.9	53.2	49.2	49.1	36.2	14.0
6300	58.1	58.5	57.7	54.7	50.5	50.5	51.0	46.2	44.1	43.8	40.4	44.5	45.4	47.7	46.9	42.1	42.0	26.9	.3
8000	52.4	52.8	51.8	48.6	43.8	43.7	44.3	39.0	38.0	36.7	31.8	36.5	37.3	39.5	38.9	34.2	34.0	10.8	
10000	46.1	46.0	45.0	42.1	36.2	35.7	37.3	31.9	31.1	29.8	23.7	29.0	29.6	29.8	28.7	26.3	25.9		
12500	39.4	39.3	38.3	35.5	28.6	27.8	30.2	22.4	20.8	20.2	11.6	17.7	18.2	16.1	15.6	15.0	12.9		
16000	30.8	31.7	30.7	27.1	18.9	17.1	20.4	9.1	10.6	7.0		6.5	6.9	2.5	2.5	3.8			
20000	22.2	22.5	20.9	16.0	9.2	6.4	7.8		.3										
25000	6.8	8.2	6.8	4.9															

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-141A AIRCRAFT
ENG. TF33-P-7
GROUND RUNUP

OPERATION:
IDLE, 28% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-013-001
RUN 01
AIRCRAFT CODE 027
OPERATION CODE 04013
PROFILE VERSION A
08 APR 76
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	111.3	111.9	111.3	107.1	102.8	104.0	103.4	102.1	98.4	99.4	97.7	101.1	101.5	102.4	102.1	97.6	97.4	87.2	77.0
250	109.0	109.6	109.1	104.8	100.5	101.7	101.1	99.8	96.1	97.1	95.4	98.8	99.2	100.1	99.8	95.4	95.1	85.0	74.7
315	106.7	107.3	106.7	102.5	98.1	99.4	98.8	97.5	93.8	94.8	93.0	96.4	96.9	97.8	97.5	93.1	92.9	82.7	72.3
400	104.3	104.8	104.3	100.0	95.7	96.9	96.3	95.0	91.3	92.3	90.6	93.9	94.4	95.4	95.2	90.7	90.5	80.3	69.9
500	101.7	102.3	101.8	97.5	93.1	94.4	93.9	92.5	88.8	89.8	88.0	91.3	91.8	92.9	92.7	88.2	88.0	77.7	67.4
630	99.1	99.6	99.1	94.8	90.4	91.7	91.3	89.8	86.1	87.1	85.3	88.6	89.1	90.4	90.1	85.7	85.4	75.1	64.7
800	96.3	96.8	96.3	92.0	87.6	88.8	88.6	86.9	83.3	84.2	82.4	85.7	86.2	87.7	87.4	83.0	82.7	72.4	61.9
1000	93.3	93.8	93.2	89.0	84.6	85.9	85.8	83.9	80.4	81.2	79.4	82.6	83.1	84.8	84.6	80.1	79.9	69.5	58.8
1250	90.0	90.6	90.0	85.8	81.5	82.8	82.8	80.6	77.4	77.9	76.0	79.2	79.7	81.7	81.5	77.0	76.8	66.4	55.6
1600	86.5	87.0	86.4	82.3	78.2	79.0	79.5	77.0	74.1	74.5	72.7	75.7	76.2	78.4	78.3	73.7	73.5	63.1	52.0
2000	82.6	83.2	82.6	78.8	74.6	76.0	76.0	73.0	70.5	70.9	69.0	72.1	72.6	74.8	74.7	70.2	70.0	59.3	47.9
2500	78.8	79.1	78.4	74.9	70.8	72.1	72.2	69.1	66.6	67.0	65.0	68.1	68.6	70.9	70.8	66.2	66.1	55.2	43.0
3150	74.6	75.1	74.3	70.8	66.6	67.7	67.8	64.6	62.3	62.6	60.6	63.7	64.2	66.5	66.5	61.9	61.7	50.7	37.0
4000	69.8	70.2	69.5	66.1	61.8	62.7	62.8	59.5	57.1	57.4	55.0	58.4	58.9	61.2	61.0	56.5	56.3	44.7	29.2
5000	64.5	65.0	64.1	60.9	56.6	57.0	57.4	53.4	51.3	51.5	48.6	52.3	53.0	55.2	54.9	50.4	50.3	37.3	15.1
6300	58.7	59.1	58.3	55.1	50.7	50.9	51.4	46.7	44.6	44.3	41.1	45.1	46.0	48.5	48.0	42.9	42.7	27.7	1.1
8000	52.7	53.1	52.1	48.0	43.9	43.9	44.0	39.3	38.2	36.9	32.2	36.9	37.5	40.0	39.4	34.6	34.4	11.2	
10000	46.1	46.0	45.0	42.1	36.2	35.7	37.3	31.9	31.1	29.8	23.7	29.0	29.6	29.8	28.7	26.3	25.9		
12500	39.4	39.3	38.3	35.5	28.6	27.8	30.2	22.4	20.8	20.2	11.6	17.7	18.2	16.1	15.6	15.0	12.9		
16000	30.8	31.7	30.7	27.1	18.9	17.1	20.4	9.1	10.6	7.0		0.5	6.9	2.5	2.5	3.8			
20000	22.2	22.5	21.9	18.0	9.2	6.4	7.8		.3										
25000	6.8	8.2	6.8	4.9															

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-141A AIRCRAFT
ENG. TF33-P-7
GROUND RUNUP

OPERATION:
IDLE, 28% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-013-001
RUN 01
AIRCRAFT CODE 027
OPERATION CODE 04013
PROFILE VERSION A
08 APR 76
PAGE F1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	96.1	96.4	95.8	92.5	88.7	89.4	88.8	86.0	83.5	83.9	81.2	85.2	85.1	86.7	85.6	82.0	81.8	71.8	61.8
250	93.9	94.2	93.6	90.3	86.4	87.2	86.6	83.7	81.3	81.7	78.9	83.0	83.8	84.5	83.4	79.8	79.6	69.6	59.6
315	91.6	92.0	91.3	88.1	84.2	84.9	84.3	81.5	79.1	79.5	76.7	80.6	81.5	82.2	81.2	77.5	77.4	67.4	57.4
400	89.3	89.6	89.0	85.8	81.9	82.6	82.1	79.1	76.8	77.1	74.3	78.3	79.1	79.9	78.9	75.2	75.1	65.1	55.1
500	86.9	87.3	86.6	83.4	79.5	80.2	79.7	76.7	74.5	74.7	71.9	75.8	76.6	77.5	76.5	72.8	72.7	62.7	52.7
630	84.5	84.8	84.1	81.0	77.1	77.7	77.3	74.2	72.1	72.3	69.4	73.3	74.1	75.0	74.0	70.4	70.2	60.2	50.2
800	82.0	82.3	81.6	78.5	74.5	75.1	74.8	71.6	69.6	69.7	66.8	70.6	71.4	72.4	71.5	67.8	67.7	57.7	47.7
1000	79.3	79.6	78.9	75.9	71.9	72.4	72.2	68.9	67.0	67.1	64.1	67.9	68.6	69.7	68.8	65.2	65.0	55.0	45.0
1250	76.6	76.8	76.1	73.1	69.1	69.6	69.4	66.1	64.3	64.3	61.3	65.0	65.7	66.8	66.0	62.4	62.3	52.3	42.3
1600	73.7	73.9	73.2	70.3	66.2	66.6	66.6	63.2	61.5	61.4	58.3	61.9	62.6	63.8	63.0	59.5	59.4	49.4	39.4
2000	70.6	70.8	70.1	67.3	63.2	63.5	63.6	60.1	58.6	58.4	55.2	58.7	59.4	60.6	59.9	56.4	56.3	46.3	36.3
2500	67.4	67.6	66.8	64.1	60.0	60.1	60.3	56.7	55.4	55.1	51.8	55.4	56.0	57.2	56.4	53.2	53.0	43.0	33.0
3150	63.9	64.1	63.3	60.7	56.5	56.5	56.8	53.1	52.1	51.6	48.2	51.8	52.3	53.4	52.7	49.7	49.4	39.4	29.4
4000	60.2	60.3	59.6	56.9	52.7	52.6	53.0	49.3	48.4	47.8	44.3	47.9	48.4	49.4	48.7	45.8	45.6	35.6	25.6
5000	56.1	56.1	55.4	52.8	48.4	48.3	48.8	45.0	44.3	43.6	39.9	43.6	44.0	44.8	44.2	41.6	41.3	31.3	21.3
6300	51.5	51.5	50.9	48.3	43.9	43.6	44.2	40.4	39.9	39.0	35.3	39.0	39.3	39.9	39.2	36.9	36.7	26.7	16.7
8000	47.0	47.0	46.3	43.8	39.2	38.9	39.6	35.9	35.5	34.5	30.8	34.4	34.6	34.7	34.1	32.4	32.1	22.1	12.1
10000	42.2	42.1	41.4	38.9	34.2	33.8	34.8	31.1	30.7	29.8	26.1	29.4	29.5	29.3	28.7	27.6	27.2	17.2	7.2
12500	36.9	36.9	36.1	33.6	28.9	28.4	29.0	25.9	25.5	24.0	21.2	24.1	24.2	23.6	23.1	22.5	21.9	11.9	1.9
16000	31.2	31.2	30.3	28.0	23.2	22.7	24.1	20.5	19.9	19.1	15.9	18.3	18.3	17.5	17.2	17.0	16.3	6.3	
20000	25.0	25.1	24.1	21.8	17.1	16.6	18.2	14.6	13.7	13.1	10.2	12.0	12.0	11.2	11.0	11.0	10.2	.2	
25000	18.1	18.3	17.3	15.2	10.6	10.2	11.9	8.5	7.1	6.7	4.2	5.3	5.2	4.4	4.3	4.5	3.6		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-141A AIRCRAFT
ENG. TF33-P-7
GROUND RUNUP

OPERATION:
IDLE, 28% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-013-001
RUN 01
AIRCRAFT CODE 027
OPERATION CODE 04013
PROFILE VERSION A
08 APR 76
PAGE G1

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	>170	>180
200	97.5	98.0	97.4	93.5	89.2	90.5	89.9	87.4	84.7	85.2	83.0	86.8	87.4	88.8	88.4	83.9	83.8	73.8	63.8
250	95.3	95.8	95.2	91.3	87.0	88.3	87.8	85.1	82.5	83.0	80.8	84.5	85.2	86.6	86.2	81.7	81.6	71.6	61.6
315	93.1	93.6	92.9	89.1	84.7	86.0	85.5	82.9	80.2	80.7	78.5	82.2	82.8	84.3	84.0	79.5	79.3	69.3	59.3
400	90.8	91.2	90.6	86.8	82.4	83.7	83.2	80.5	78.0	78.4	76.1	79.8	80.5	82.0	81.7	77.1	77.0	67.0	57.0
500	88.4	88.9	88.2	84.4	80.0	81.2	80.9	78.1	75.6	76.0	73.7	77.3	78.0	79.6	79.3	74.8	74.7	64.7	54.7
630	86.0	86.4	85.7	82.0	77.6	78.8	78.5	75.6	73.2	73.6	71.2	74.8	75.4	77.1	76.8	72.3	72.2	62.2	52.2
800	83.4	83.9	83.2	79.5	75.0	76.2	76.0	73.0	70.7	71.0	68.6	72.2	72.8	74.5	74.3	69.8	69.7	59.7	49.7
1000	80.8	81.2	80.5	76.9	72.4	73.5	73.3	70.3	68.2	68.4	65.9	69.4	70.0	71.8	71.6	67.1	67.0	57.0	47.0
1250	78.0	78.4	77.7	74.1	69.6	70.6	70.6	67.5	65.5	65.5	63.1	66.5	67.1	69.0	68.8	64.4	64.2	54.2	44.2
1500	75.1	75.5	74.8	71.3	66.8	67.7	67.8	64.6	62.7	62.7	60.1	63.5	64.0	66.0	65.8	61.4	61.3	51.3	41.3
2000	72.1	72.4	71.7	68.3	63.7	64.6	64.8	61.4	59.7	59.7	57.0	60.3	60.7	62.8	62.6	58.4	58.2	48.2	38.2
2500	68.9	69.2	68.4	65.1	60.5	61.2	61.5	58.1	56.6	56.4	53.6	56.9	57.3	59.3	59.2	55.1	54.9	44.9	34.9
3150	65.4	65.7	64.9	61.7	57.0	57.6	58.0	54.5	53.2	52.9	50.0	53.3	53.7	55.5	55.5	51.6	51.4	41.4	31.4
4000	61.4	61.6	60.8	57.7	53.1	53.5	54.0	50.4	49.3	48.8	45.7	49.1	49.5	51.1	50.9	47.4	47.2	37.2	27.2
5000	58.9	57.1	56.3	53.4	48.7	49.0	49.5	45.8	45.0	44.4	41.0	44.6	44.8	46.1	45.8	42.7	42.5	32.5	22.5
6300	52.1	52.2	51.5	48.7	44.1	44.1	44.7	41.0	40.3	39.6	36.0	39.6	39.9	40.7	40.3	37.7	37.4	27.4	17.4
8000	47.3	47.3	46.6	44.0	39.3	39.1	39.9	36.2	35.7	34.8	31.2	34.7	34.8	35.2	34.6	32.8	32.4	22.4	12.4
10000	42.2	42.1	41.4	38.9	34.2	33.8	34.8	31.1	30.7	29.8	26.1	29.4	29.5	29.3	28.7	27.6	27.2	17.2	7.2
12500	36.9	36.9	36.1	33.6	28.9	28.4	29.6	25.9	25.5	24.6	21.2	24.1	24.2	23.6	23.1	22.5	21.9	11.9	1.9
16000	31.2	31.2	30.3	28.0	23.2	22.7	24.1	20.5	19.9	19.1	15.9	18.3	18.3	17.5	17.2	17.0	16.3	6.3	
20000	25.0	25.1	24.1	21.8	17.1	16.6	18.2	14.6	13.7	13.1	10.2	12.0	12.0	11.2	11.0	11.0	10.2	.2	
25000	18.1	18.3	17.3	15.2	10.6	10.2	11.9	8.5	7.1	6.7	4.2	5.3	5.2	4.4	4.3	4.5	3.6		

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

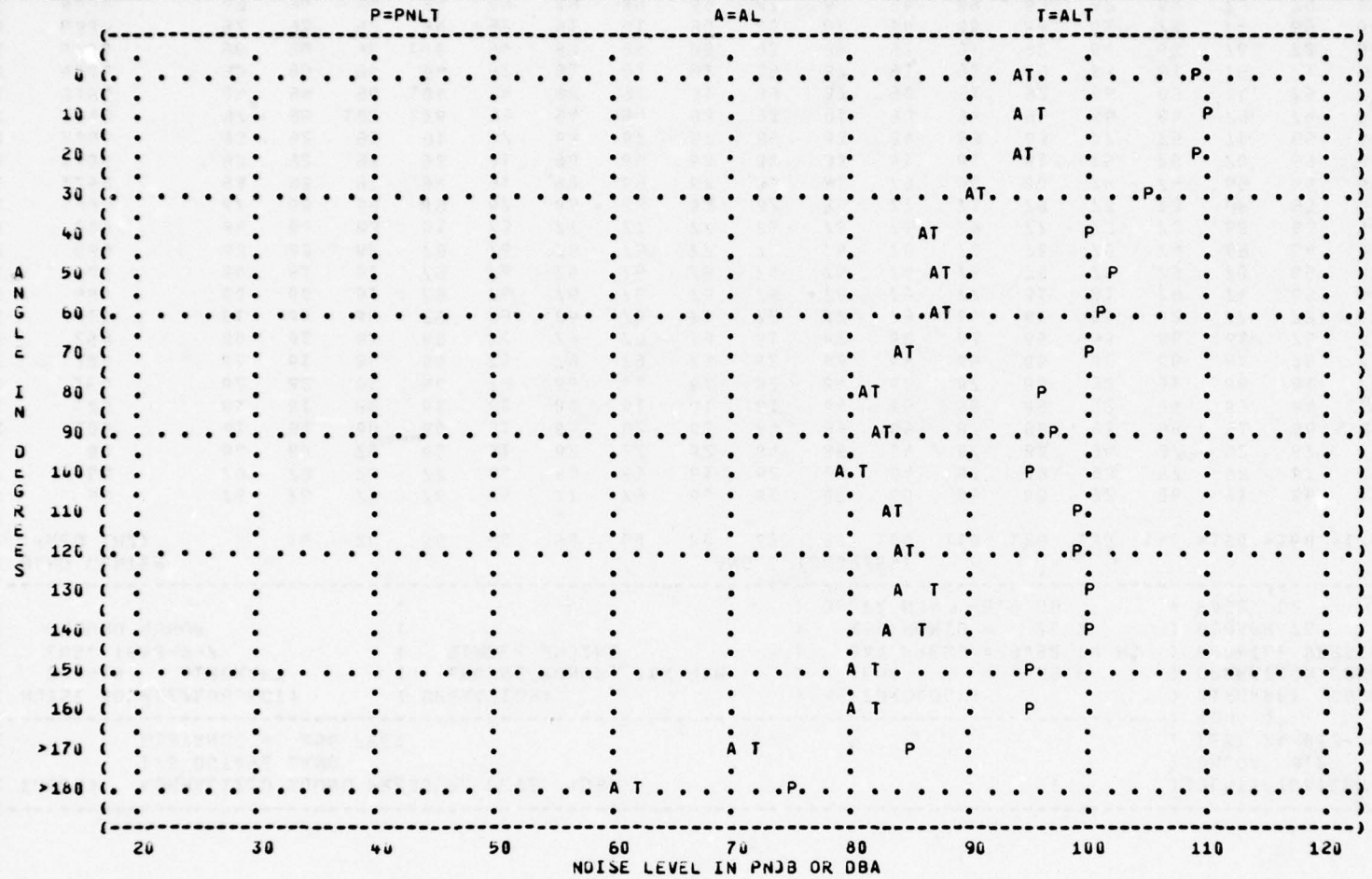
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
C-141A AIRCRAFT
ENG. TF33-P-7
GROUND RUNUP

OPERATION:
IDLE, 28% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-013-001
RUN 01
AIRCRAFT CODE 027
OPERATION CODE 04013
PROFILE VERSION A
08 APR 76
PAGE J1



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
C-141A AIRCRAFT
ENG. TF33-P-7
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 70% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-013-001
RUN 02
AIRCRAFT CODE 027
OPERATION CODE 04021
PROFILE VERSION A
08 APR 76
PAGE C2

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	>150	>160	>170	>180
50	76	76	77	76	76	77	79	80	81	82	85	86	88	92	96	91	86	81	76
63	79	79	78	77	80	80	81	81	82	84	84	87	89	93	97	92	87	82	77
80	80	80	79	80	81	82	82	82	84	85	84	87	88	94	97	92	87	82	77
100	81	80	80	80	81	81	82	83	84	85	85	87	90	93	96	91	86	81	76
125	81	81	80	81	80	80	81	81	83	84	86	88	89	92	94	89	84	79	74
160	82	82	81	80	79	80	81	81	82	84	86	87	88	90	91	86	81	76	71
200	81	81	80	80	79	79	79	79	82	83	84	85	86	88	86	81	76	71	66
250	80	81	83	80	79	79	79	79	81	82	82	83	85	88	86	81	76	71	66
315	81	80	80	79	76	75	76	75	76	77	79	80	82	85	82	77	72	67	62
400	80	80	81	79	76	76	76	76	75	76	75	77	81	81	79	74	69	64	59
500	80	81	81	79	76	75	76	76	74	76	74	76	78	76	75	70	65	60	55
630	83	83	82	79	76	76	76	77	76	78	76	78	78	75	74	69	64	59	54
800	84	84	83	81	78	77	77	77	76	78	76	79	77	73	73	68	63	58	53
1000	87	88	86	89	87	86	86	83	82	80	77	78	78	73	73	68	63	58	53
1250	98	98	97	94	91	90	89	87	85	83	79	80	80	74	74	69	64	59	54
1600	93	92	93	93	91	90	89	88	84	83	81	81	81	75	75	70	65	60	55
2000	93	92	91	91	87	88	87	87	85	83	84	83	83	77	75	70	65	60	55
2500	97	96	102	108	98	94	94	93	93	91	93	94	96	86	84	79	74	69	64
3150	94	94	96	100	94	92	91	91	89	87	90	91	92	86	85	80	75	70	65
4000	95	95	94	94	92	91	91	91	89	87	91	90	89	83	81	76	71	66	61
5000	96	96	96	100	94	93	95	93	93	90	92	91	92	84	83	78	73	68	63
6300	92	93	92	94	92	91	91	90	88	87	88	88	88	81	79	74	69	64	59
8000	89	90	90	94	89	89	89	89	87	86	90	89	89	82	80	75	70	65	60
10000	89	85	85	89	86	84	84	84	82	81	86	84	84	78	76	71	66	61	56
OVERALL	105	105	106	110	103	101	101	101	100	99	100	101	102	101	104	99	94	89	84

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-013-001
RUN 02
AIRCRAFT CODE 027
OPERATION CODE 04021
PROFILE VERSION A
08 APR 76
PAGE 02

NOISE SOURCE/SUBJECT:
C-141A AIRCRAFT
ENG. TF33-P-7
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 70% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	>150	>160	>170	>180
200	120.5	120.1	123.0	126.7	119.5	117.3	117.8	116.8	116.1	114.7	116.4	116.9	117.9	112.2	111.6	106.6	101.6	96.5	91.3
250	118.2	117.8	120.8	124.4	117.2	115.0	115.5	114.5	113.8	112.4	114.1	114.6	115.7	109.9	109.4	104.3	99.3	94.2	88.9
315	115.9	115.4	118.4	122.1	114.9	112.7	113.0	112.1	111.5	110.0	111.7	112.2	113.3	107.6	107.0	102.0	96.9	91.8	86.5
400	113.5	113.0	116.0	119.7	112.4	110.2	110.3	109.7	109.1	107.6	109.2	109.8	110.9	105.2	104.7	99.6	94.5	89.3	84.0
500	110.9	110.5	113.5	117.1	109.9	107.6	107.8	107.1	106.5	105.0	106.6	107.3	108.3	102.5	102.1	97.1	91.9	86.6	81.4
630	108.3	107.8	110.8	114.5	107.2	104.9	105.1	104.4	103.8	102.3	103.9	104.6	105.7	99.9	99.5	94.4	89.1	83.9	78.6
800	105.4	105.0	108.0	111.7	104.3	102.1	102.2	101.5	100.9	99.5	101.0	101.7	102.9	97.1	96.7	91.5	86.2	81.0	75.7
1000	102.4	102.0	105.1	108.7	101.3	99.1	99.2	98.5	97.9	96.4	97.9	98.7	99.8	94.0	93.6	88.4	83.1	77.8	72.5
1250	99.2	98.7	101.9	105.5	98.1	95.8	95.9	95.2	94.6	93.2	94.6	95.4	96.5	90.8	90.3	85.0	79.7	74.4	69.2
1600	95.7	95.2	98.4	102.0	94.6	92.3	92.3	91.6	91.1	89.6	91.0	91.8	93.0	87.2	86.7	81.4	76.1	70.9	65.5
2000	92.0	91.4	94.6	98.2	90.7	88.4	88.5	87.8	87.2	85.8	87.1	87.9	89.1	83.3	82.8	77.5	72.2	66.9	61.4
2500	87.8	87.3	90.5	94.0	86.5	84.2	84.2	83.5	82.9	81.5	82.7	83.6	84.8	78.9	78.4	73.1	67.9	62.4	56.6
3150	83.2	82.8	85.9	89.3	81.8	79.4	79.5	78.7	78.2	76.8	77.9	78.8	80.0	74.1	73.5	68.3	62.9	57.0	51.1
4000	78.5	78.4	80.6	84.0	76.5	74.1	74.2	73.4	72.8	71.4	72.4	73.4	74.6	68.5	68.1	62.6	56.9	51.0	44.2
5000	73.7	73.6	74.8	78.6	70.6	68.3	68.2	67.4	66.8	65.5	66.3	67.4	68.5	62.6	62.1	56.3	50.2	43.4	35.0
6300	68.5	68.4	68.3	71.2	63.8	62.6	61.9	60.8	60.0	58.7	59.4	60.5	61.7	55.7	55.1	48.8	42.1	33.4	22.6
8000	63.0	62.9	62.7	63.5	57.4	56.4	55.8	54.5	52.6	51.9	51.9	53.2	54.4	48.9	48.7	42.0	33.5	20.2	10.1
10000	56.8	56.8	56.4	54.8	51.0	49.6	49.3	47.7	45.6	44.7	42.9	45.0	45.8	43.6	43.4	35.7	22.0	6.9	
12500	49.6	49.5	49.1	46.9	43.0	41.4	41.1	39.4	37.2	37.4	35.5	38.0	39.2	37.2	36.9	26.8	10.7		
16000	40.6	40.4	39.7	37.1	32.7	31.2	31.0	29.0	25.5	27.7	23.8	28.5	30.8	30.8	29.8	13.4			
20000	29.1	29.2	28.2	23.8	17.7	16.0	14.6	14.5	10.3	13.7	9.4	15.9	18.2	19.1	19.7				
25000	10.3	11.4	10.9	10.4	2.6	.8		.0				3.3	5.7	7.5	9.6				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-013-001
RUN 02
AIRCRAFT CODE 027
OPERATION CODE 04021
PROFILE VERSION A
08 APR 76
PAGE E2

NOISE SOURCE/SUBJECT:
C-141A AIRCRAFT
ENG. TF33-P-7
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 70% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -6.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	>150	>160	>170	>180
200	123.3	122.9	125.9	130.7	121.9	118.5	119.5	118.4	118.3	116.7	118.5	119.3	120.7	113.7	113.1	108.1	103.0	97.9	92.7
250	121.1	120.6	123.6	128.5	119.6	116.2	117.1	116.1	116.0	114.4	116.1	117.0	118.4	111.5	110.8	105.8	100.7	95.6	90.4
315	118.7	118.2	121.3	126.1	117.2	113.9	114.6	113.7	113.6	112.1	113.8	114.6	116.0	109.2	108.5	103.5	98.4	93.2	88.0
400	116.3	115.8	118.8	123.7	114.8	111.4	111.9	111.2	111.2	109.6	111.3	112.2	113.6	106.7	106.1	101.1	95.9	90.7	85.5
500	113.8	113.2	116.3	121.2	112.2	108.9	109.4	108.7	108.6	107.1	108.7	109.6	111.1	104.2	103.6	98.5	93.4	88.1	82.9
630	111.1	110.6	113.7	118.5	109.5	106.2	106.7	106.0	105.9	104.4	106.0	107.0	108.4	101.5	100.9	95.8	90.6	85.3	80.1
800	108.3	107.7	110.9	115.7	106.7	103.3	103.8	103.1	103.1	101.5	103.1	104.1	105.6	98.6	98.1	92.9	87.7	82.4	77.1
1000	105.3	104.7	107.9	112.7	103.7	100.3	100.8	100.0	100.0	98.5	100.0	101.1	102.5	95.5	95.1	89.8	84.5	79.3	74.0
1250	102.1	101.5	104.7	109.5	100.4	97.0	97.5	96.7	96.7	95.2	96.7	97.8	99.3	92.3	91.8	86.5	81.2	75.9	70.6
1600	98.6	98.0	101.2	106.1	96.9	93.5	94.0	93.2	93.2	91.7	93.1	94.2	95.7	88.7	88.2	82.9	77.6	72.3	67.0
2000	94.8	94.2	97.5	102.3	93.1	89.6	90.1	89.3	89.3	87.8	89.2	90.3	91.8	84.8	84.2	79.0	73.7	68.4	62.8
2500	90.6	90.1	93.3	98.1	88.9	85.4	85.9	85.1	85.1	83.6	84.8	86.0	87.6	80.5	79.9	74.6	69.3	63.9	58.0
3150	86.0	85.6	88.7	93.4	84.2	80.6	81.1	80.3	80.3	78.8	80.0	81.2	82.8	75.7	75.0	69.7	64.3	58.5	52.6
4000	80.8	80.7	82.9	87.3	78.4	75.1	75.5	74.6	74.5	73.1	74.1	75.3	76.8	69.9	69.2	63.8	58.1	52.2	45.4
5000	75.4	75.3	78.5	80.4	72.0	69.0	69.2	68.4	68.0	66.7	67.5	68.8	70.2	63.5	62.9	57.2	51.1	44.3	35.9
6300	69.7	69.6	69.4	72.8	64.8	63.1	62.6	61.4	60.8	59.5	60.2	61.4	62.8	56.3	55.7	49.4	42.7	34.0	23.1
8000	63.6	63.5	63.2	64.3	57.9	56.6	56.2	54.8	53.0	52.3	52.3	53.7	54.9	49.3	49.0	42.3	33.8	20.4	10.4
10000	56.8	56.8	56.4	54.8	51.0	49.6	49.3	47.7	45.6	44.7	42.9	45.0	45.8	43.6	43.4	35.7	22.0	6.9	
12500	49.6	49.5	49.1	46.9	43.0	41.4	41.1	39.4	37.2	37.4	35.5	38.0	39.2	37.2	36.9	26.8	10.7		
16000	40.6	40.4	39.7	37.1	32.7	31.2	31.0	29.0	25.5	27.7	23.8	28.5	30.8	30.8	29.8	13.4			
20000	29.1	29.2	28.2	23.8	17.7	16.0	14.6	14.5	10.3	13.7	9.4	15.9	18.2	19.1	19.7				
25000	18.3	11.4	10.9	10.4	2.6	.8		.0				3.3	5.7	7.5	9.6				

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-141A AIRCRAFT
ENG. TF33-P-7
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 70% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-013-001
RUN 02
AIRCRAFT CODE 027
OPERATION CODE 04021
PROFILE VERSION A
08 APR 76
PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	>150	>160	>170	>180
200	107.7	107.5	109.2	113.0	109.8	104.1	104.2	103.3	102.1	100.2	102.4	102.2	103.1	96.0	94.9	89.9	84.9	79.9	74.9
250	105.4	105.2	106.9	110.8	103.5	101.8	101.8	100.9	99.8	97.8	100.0	99.9	100.8	93.7	92.6	87.6	82.6	77.6	72.6
315	103.1	102.8	104.6	108.4	101.1	99.4	99.4	98.5	97.3	95.4	97.5	97.4	98.3	91.3	90.2	85.2	80.2	75.2	70.2
400	100.7	100.4	102.2	106.0	98.7	96.9	96.9	96.0	94.8	92.8	94.9	94.9	95.8	88.9	87.8	82.8	77.8	72.8	67.8
500	98.2	97.9	99.8	103.5	96.1	94.3	94.3	93.3	92.2	90.2	92.2	92.3	93.2	86.3	85.3	80.3	75.3	70.3	65.3
630	95.6	95.4	97.2	100.9	93.5	91.6	91.5	90.6	89.4	87.5	89.3	89.5	90.5	83.6	82.7	77.7	72.7	67.7	62.7
800	93.0	92.7	94.5	98.2	90.7	88.8	88.7	87.7	86.6	84.6	86.4	86.6	87.7	80.8	79.9	74.9	69.9	64.9	59.9
1000	90.2	89.9	91.7	95.3	87.8	85.9	85.7	84.7	83.5	81.6	83.2	83.6	84.6	77.3	77.0	72.0	67.0	62.0	57.0
1250	87.3	87.0	88.7	92.2	84.7	82.8	82.6	81.5	80.3	78.5	79.9	80.3	81.4	74.7	73.9	68.9	63.9	58.9	53.9
1600	84.2	84.0	85.5	88.9	81.4	79.6	79.3	78.2	76.9	75.2	76.3	76.9	78.0	71.4	70.6	65.6	60.6	55.6	50.5
2000	81.0	80.8	82.1	85.2	78.0	76.1	75.8	74.6	73.3	71.7	72.5	73.2	74.3	67.8	67.0	62.0	57.0	52.0	47.0
2500	77.7	77.4	78.5	81.2	74.3	72.5	72.1	70.9	69.5	67.9	68.4	69.2	70.2	63.9	63.1	58.1	53.1	48.1	43.1
3150	74.1	73.9	74.6	76.8	70.3	68.7	68.3	66.9	65.4	64.0	64.0	64.6	65.8	59.7	58.9	53.9	48.9	43.9	38.9
4000	70.2	70.0	70.4	72.0	66.1	64.5	64.1	62.7	61.0	59.7	59.2	60.1	60.9	55.1	54.4	49.4	44.4	39.4	34.4
5000	66.0	65.9	65.9	66.6	61.5	60.1	59.7	58.1	56.2	55.2	54.1	55.0	55.6	50.2	49.6	44.6	39.6	34.6	29.6
6300	61.3	61.3	61.0	60.8	56.6	55.3	54.8	53.2	51.2	50.3	48.6	49.7	49.9	45.2	44.7	39.7	34.7	29.7	24.7
8000	56.2	56.2	55.8	54.7	51.3	50.1	49.7	48.0	46.0	45.3	43.2	44.5	44.6	41.0	40.7	35.7	30.7	25.7	20.7
10000	50.5	50.5	50.0	48.4	45.5	44.3	44.0	42.4	40.5	40.2	37.9	39.3	39.5	37.0	36.8	31.8	26.8	21.8	16.8
12500	44.1	44.2	43.7	41.8	39.1	38.0	37.8	36.3	34.6	34.7	32.5	34.1	34.5	32.3	32.9	27.9	22.9	17.9	12.9
16000	36.9	37.0	36.6	34.6	32.1	31.0	30.9	29.8	28.3	28.6	27.0	28.8	29.4	28.3	29.2	24.2	19.2	14.2	9.2
20000	29.1	29.2	28.9	27.0	24.4	23.5	23.5	22.9	21.8	22.8	21.4	23.3	24.3	24.8	25.6	20.6	15.6	10.6	5.6
25000	21.0	21.2	21.0	19.1	16.5	16.0	16.2	16.0	15.5	16.8	16.0	17.9	19.3	20.8	22.1	17.1	12.1	7.1	2.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-141A AIRCRAFT
ENG. TF33-P-7
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 70% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-013-001
RUN 02
AIRCRAFT CODE 027
OPERATION CODE 04021
PROFILE VERSION A
08 APR 76
PAGE G2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	>150	>160	>170	>180
200	110.5	110.3	112.1	117.1	108.2	105.3	105.8	104.9	104.2	102.2	104.5	104.0	105.8	97.6	96.3	91.3	86.3	81.3	76.3
250	108.2	108.0	109.8	114.8	105.9	103.0	103.4	102.5	101.9	99.9	102.1	102.2	103.5	95.3	94.0	89.0	84.0	79.0	74.0
315	105.9	105.6	107.5	112.5	103.5	100.6	101.0	100.1	99.5	97.4	99.6	99.8	101.1	92.9	91.7	86.7	81.7	76.7	71.7
400	103.5	103.2	105.1	110.1	101.0	98.1	98.5	97.5	96.9	94.9	97.0	97.3	98.6	90.4	89.3	84.3	79.3	74.3	69.3
500	101.0	100.7	102.0	107.6	98.5	95.5	95.9	94.9	94.3	92.3	94.3	94.7	96.0	87.9	86.8	81.8	76.8	71.8	66.8
630	98.5	98.1	100.0	105.0	95.8	92.8	93.1	92.1	91.6	89.6	91.4	91.9	93.2	85.2	84.1	79.1	74.1	69.1	64.1
800	95.8	95.5	97.3	102.3	93.0	90.0	90.3	89.3	88.7	86.7	88.5	89.0	90.4	82.4	81.4	76.4	71.4	66.4	61.4
1000	93.6	92.7	94.5	99.4	90.1	87.1	87.3	86.3	85.7	83.7	85.3	86.0	87.4	79.5	78.5	73.5	68.5	63.5	58.5
1250	90.1	89.8	91.5	96.3	87.1	84.0	84.2	83.1	82.5	80.5	82.0	82.7	84.2	76.3	75.3	70.3	65.3	60.3	55.3
1600	87.1	86.7	88.4	92.9	83.8	80.8	80.9	79.7	79.1	77.2	78.4	79.3	80.7	73.0	72.0	67.0	62.0	57.0	52.0
2000	83.9	83.6	85.0	89.3	80.3	77.3	77.4	76.2	75.4	73.7	74.6	75.6	77.0	69.4	68.5	63.5	58.5	53.5	48.5
2500	80.5	80.2	81.4	85.3	76.6	73.7	73.7	72.5	71.6	70.0	70.5	71.6	72.9	65.5	64.0	59.6	54.6	49.6	44.6
3150	76.9	76.7	77.5	80.9	72.7	69.9	69.9	68.5	67.5	66.0	66.1	67.2	68.5	61.3	60.4	55.4	50.4	45.4	40.4
4000	72.5	72.3	72.7	75.2	67.9	65.5	65.4	63.9	62.7	61.4	60.9	62.0	63.1	56.3	55.5	50.5	45.5	40.5	35.5
5000	67.7	67.5	67.6	69.0	62.9	60.8	60.6	59.1	57.5	56.4	55.3	56.5	57.2	51.2	50.5	45.5	40.5	35.5	30.5
6300	62.4	62.4	62.2	62.4	57.5	55.8	55.5	53.8	52.1	51.1	49.4	50.0	51.0	45.8	45.3	40.3	35.3	30.3	25.3
8000	56.8	56.8	56.4	55.5	51.8	50.3	50.0	48.3	46.4	45.8	43.6	45.0	45.2	41.3	41.0	36.0	31.0	26.0	21.0
10000	50.5	50.5	50.0	48.4	45.5	44.3	44.0	42.4	40.5	40.2	37.9	39.3	39.5	37.0	36.8	31.8	26.8	21.8	16.8
12500	44.1	44.2	43.7	41.8	39.1	38.0	37.8	36.3	34.0	34.7	32.5	34.1	34.5	32.9	32.9	27.9	22.9	17.9	12.9
16000	36.9	37.0	36.6	34.6	32.1	31.0	30.9	29.8	28.3	28.8	27.0	28.8	29.4	28.3	29.2	24.2	19.2	14.2	9.2
20000	29.1	29.2	28.9	27.0	24.4	23.5	23.5	22.9	21.8	22.8	21.4	23.3	24.3	24.8	25.6	20.6	15.6	10.6	5.6
25000	21.0	21.2	21.0	19.1	16.5	16.0	16.2	16.0	15.5	16.8	16.0	17.9	19.3	20.8	22.1	17.1	12.1	7.1	2.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

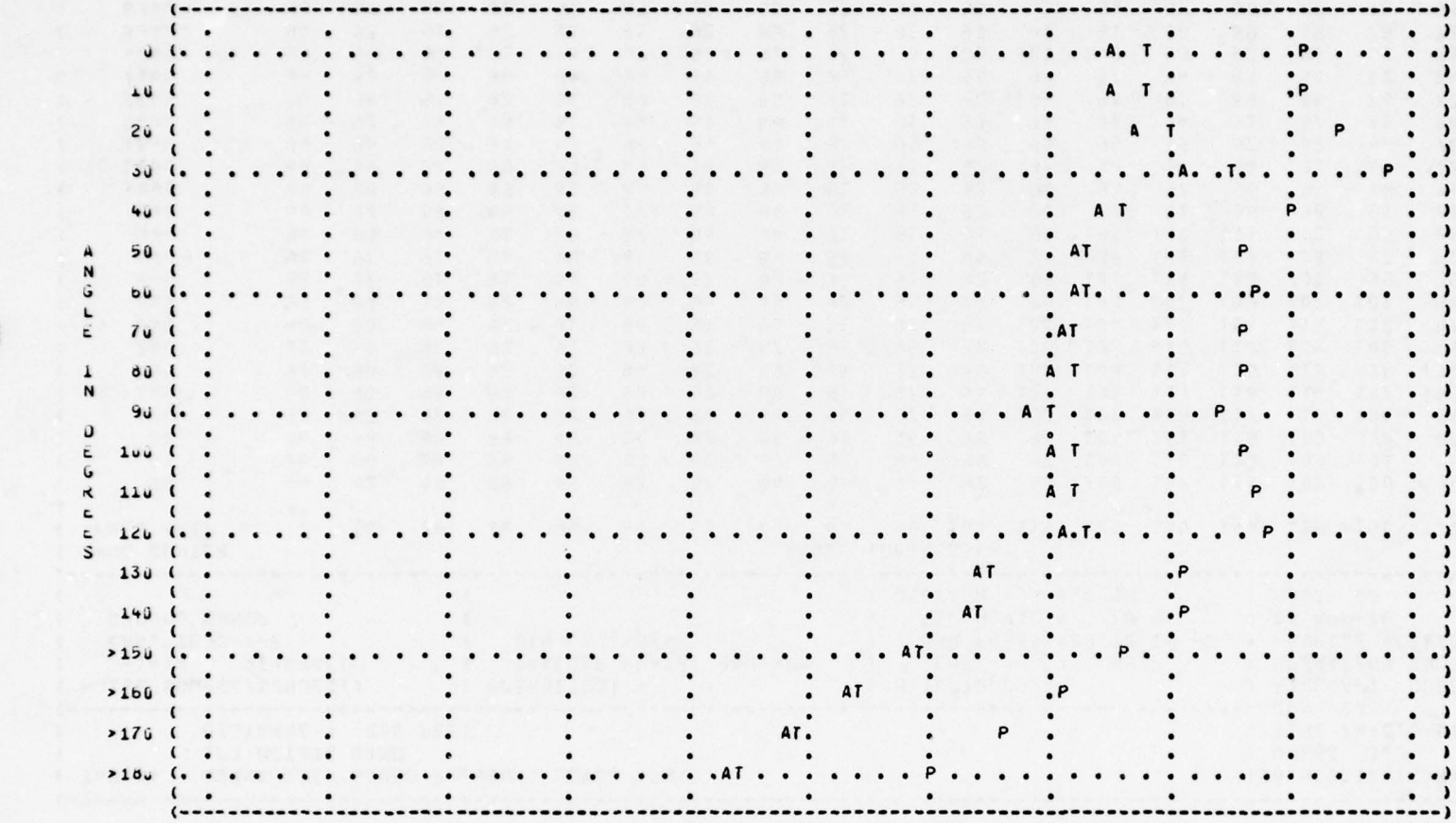
NOISE SOURCE/SUBJECT:
C-141A AIRCRAFT
ENG. TF33-P-7
GROUND RUNUP

OPERATION:
ENGINE RUNUP, 70% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-013-001
RUN 02
AIRCRAFT CODE 027
OPERATION CODE 04021
PROFILE VERSION A
08 APR 76
PAGE J2

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

IDENTIFICATION:
OMEGA 8.2
TEST 74-013-001
RUN 03
AIRCRAFT CODE 027
OPERATION CODE 04030
PROFILE VERSION A
08 APR 76
PAGE C3

NOISE SOURCE/SUBJECT:
C-141A AIRCRAFT
ENG. TF33-P-7
GROUND RUNUP

OPERATION:
TAKEOFF POWER, 95% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
50	84	82	83	85	85	87	87	84	90	90	92	96	100	107	111	107	100	94	87
63	86	86	85	86	89	90	92	87	92	94	95	97	103	110	113	108	101	95	88
80	90	88	88	89	89	90	92	86	93	96	95	98	104	111	115	109	102	96	89
100	93	92	92	92	93	92	92	88	94	97	98	100	107	114	117	112	106	99	92
125	95	95	95	92	92	93	92	88	95	97	98	102	105	114	118	114	107	100	94
160	92	93	93	92	92	94	92	89	95	97	99	100	108	112	116	113	106	100	93
200	92	93	92	93	92	93	92	87	95	96	98	100	106	113	112	112	106	99	92
250	93	93	94	91	91	90	90	86	92	95	97	100	105	112	111	110	103	97	90
315	93	93	93	92	89	89	89	85	92	93	94	98	103	107	109	107	101	94	87
400	92	92	91	91	89	89	87	83	90	92	92	95	101	104	106	105	98	92	85
500	91	91	91	90	89	87	88	83	89	90	90	94	98	101	103	103	97	90	83
630	90	89	90	90	89	87	88	84	91	91	91	96	98	100	101	102	95	88	82
800	88	88	89	89	88	87	88	84	91	91	92	96	97	98	98	98	91	85	78
1000	89	88	89	89	89	88	88	85	92	92	93	96	96	97	96	95	88	81	75
1250	88	89	88	89	90	89	90	85	92	93	92	95	96	96	94	92	85	78	72
1600	90	90	93	97	95	92	94	88	93	94	93	95	95	95	92	89	82	76	69
2000	90	92	94	93	91	89	89	85	90	91	93	94	95	94	91	87	81	74	67
2500	95	94	93	92	91	89	90	85	92	92	92	94	93	91	89	85	78	72	65
3150	94	93	94	96	95	94	95	90	96	97	98	99	97	94	91	88	81	74	68
4000	95	94	95	101	98	97	99	92	97	99	100	103	100	96	92	90	83	76	70
5000	91	92	91	93	91	91	92	85	92	92	93	94	91	90	89	85	78	72	65
6300	90	89	90	92	91	89	90	85	93	94	95	96	91	89	86	83	76	69	63
8000	87	86	87	89	88	86	89	82	90	91	94	95	92	89	86	83	76	70	63
10000	83	82	83	85	84	83	85	79	87	88	91	92	88	86	83	80	73	66	60
OVERALL	105	105	105	107	105	104	105	100	107	108	109	112	116	121	124	121	114	107	101

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-013-001
RUN 03
AIRCRAFT CODE 027
OPERATION CODE 04030
PROFILE VERSION A
08 APR 76
PAGE 03

NOISE SOURCE/SUBJECT:
C-141A AIRCRAFT
ENG. TF33-P-7
GROUND RUNUP

OPERATION:
TAKEOFF POWER, 95% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -0.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	120.6	120.3	120.9	123.7	122.0	120.7	122.1	116.2	122.4	123.6	124.6	127.1	126.7	128.0	128.9	126.3	119.7	113.0	106.3
250	118.3	118.0	118.0	121.4	119.6	118.4	119.8	113.9	120.1	121.3	122.3	124.8	124.5	125.9	126.8	124.3	117.6	110.9	104.2
315	115.9	115.6	116.2	119.0	117.2	116.0	117.4	111.5	117.7	118.9	119.9	122.4	122.1	123.8	124.7	122.1	115.5	108.8	102.0
400	113.4	113.1	113.7	116.5	114.7	113.5	114.9	109.0	115.2	116.4	117.4	119.9	119.7	121.5	122.5	119.9	113.2	106.6	99.8
500	110.8	110.5	111.1	113.8	112.1	110.8	112.2	106.3	112.6	113.7	114.7	117.3	117.2	119.2	120.2	117.6	110.9	104.2	97.4
630	108.1	107.7	108.4	111.0	109.3	108.0	109.4	103.5	109.8	111.0	111.9	114.5	114.5	116.6	117.8	115.1	108.4	101.7	94.8
800	105.4	104.9	105.5	108.0	106.3	105.0	106.4	100.5	106.8	108.0	108.9	111.5	111.7	114.0	115.2	112.5	105.8	99.0	92.2
1000	102.4	102.0	102.5	104.8	103.0	101.8	103.1	97.4	103.8	104.9	105.7	108.3	108.6	111.2	112.4	109.7	103.0	96.2	89.3
1250	99.3	98.8	99.2	101.2	99.5	98.3	99.6	94.0	100.5	101.6	102.4	104.8	105.3	108.2	109.4	106.7	100.0	93.1	86.2
1500	95.8	95.4	95.6	97.3	95.6	94.5	95.6	90.4	96.8	97.9	98.8	101.0	101.8	104.9	106.1	103.7	96.9	90.0	83.0
2000	92.1	91.6	91.9	93.3	91.6	90.5	91.3	86.4	92.9	94.0	94.8	96.9	98.3	101.3	102.5	100.6	93.7	86.8	79.8
2500	87.9	87.5	88.0	89.4	87.7	86.0	87.1	82.0	88.5	89.5	90.3	92.5	94.3	97.4	98.5	96.7	89.8	82.8	75.8
3150	83.3	82.9	83.6	85.2	83.5	81.7	82.8	77.6	83.8	84.8	85.3	87.6	89.9	93.0	94.1	92.3	85.4	78.4	71.3
4000	78.1	77.7	78.7	80.5	78.8	77.0	78.1	72.8	79.1	80.0	80.1	82.7	85.2	87.9	89.1	87.6	80.7	73.7	66.5
5000	72.4	72.2	73.4	75.5	73.7	71.8	73.0	67.7	74.0	74.9	74.9	77.9	80.2	82.8	84.0	82.8	75.8	68.8	61.6
6300	66.6	66.5	67.8	69.9	68.2	66.2	67.4	62.0	68.5	69.4	69.4	72.7	75.1	77.8	78.9	77.8	70.8	63.7	56.2
8000	62.0	62.0	62.6	64.4	62.6	60.7	61.9	56.4	63.3	64.1	64.6	68.2	71.1	74.1	75.3	74.3	67.2	59.9	52.2
10000	57.3	57.3	57.8	58.1	56.5	54.9	55.6	50.9	58.4	59.0	59.7	63.4	66.7	70.1	71.6	70.5	63.3	55.8	47.9
12500	52.1	52.1	52.7	52.0	51.0	49.2	50.0	44.6	53.0	53.7	54.3	58.2	62.1	65.9	67.5	66.4	59.1	51.4	42.8
16000	46.3	46.3	47.0	46.0	44.6	42.9	43.6	37.8	46.7	47.7	48.2	52.7	57.2	61.4	63.1	61.9	54.4	46.1	37.3
20000	39.4	39.4	39.9	38.7	37.1	35.5	36.4	29.6	39.6	41.0	41.3	46.1	51.5	56.4	58.8	57.0	49.0	40.1	30.9
25000	31.6	31.6	32.1	30.2	28.7	25.6	26.8	16.9	31.1	33.3	33.9	38.9	45.1	51.2	54.3	51.4	42.6	33.1	19.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-013-001
RUN 03
AIRCRAFT CODE 027
OPERATION CODE 04030
PROFILE VERSION A
08 APR 76
PAGE E3

NOISE SOURCE/SUBJECT:
C-141A AIRCRAFT
ENG. TF33-P-7
GROUND RUNUP

OPERATION:
TAKEOFF POWER, 95% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	121.6	120.3	120.9	125.7	125.5	122.1	124.0	117.7	123.5	124.8	126.2	129.2	128.6	129.3	128.9	127.5	120.8	114.1	107.4
250	119.5	118.0	118.6	123.3	121.2	119.7	121.6	115.4	121.1	122.5	123.9	126.8	126.3	127.1	126.8	125.4	118.7	112.0	105.3
315	117.6	115.6	116.2	120.9	118.8	117.3	119.2	113.0	118.7	120.1	121.5	124.5	124.0	125.0	124.7	123.3	116.6	109.9	103.2
400	114.5	113.1	113.7	118.4	116.3	114.8	116.7	110.5	116.2	117.6	119.0	122.0	121.6	122.8	122.5	121.1	114.4	107.7	100.9
500	111.8	110.5	111.1	115.7	113.7	112.2	114.1	107.8	113.6	115.0	116.4	119.3	119.1	120.4	120.2	118.7	112.0	105.3	98.5
630	109.1	107.7	108.4	112.9	110.8	109.4	111.2	105.0	110.8	112.2	113.6	116.6	116.4	117.9	117.8	116.2	109.5	102.8	96.0
800	106.4	104.9	105.5	109.9	107.9	106.4	108.2	102.0	107.9	109.2	110.6	113.6	113.5	115.2	115.2	113.6	106.9	100.2	93.3
1000	103.5	102.0	102.5	106.7	104.6	103.2	105.0	98.9	104.8	106.1	107.4	110.4	110.5	112.4	112.4	110.9	104.1	97.3	90.5
1250	100.3	98.8	99.2	103.1	101.1	99.6	101.4	95.5	101.5	102.8	104.0	106.9	107.1	109.4	109.4	107.9	101.1	94.3	87.3
1500	96.8	95.4	95.6	99.2	97.2	95.8	97.5	91.9	97.9	99.2	100.4	103.1	103.6	106.1	106.1	104.8	98.0	91.1	84.1
2000	93.1	91.6	91.9	95.2	93.2	91.8	93.1	87.9	93.9	95.2	96.4	99.0	100.2	102.6	102.5	101.7	94.9	87.9	80.9
2500	89.0	87.5	88.0	91.4	89.3	87.4	88.9	83.5	89.5	90.8	91.9	94.6	96.2	98.5	98.5	97.8	90.9	83.9	76.9
3150	84.4	82.9	83.6	87.1	85.1	83.1	84.7	79.1	84.9	86.0	87.0	89.7	91.7	94.2	94.1	93.5	86.5	79.5	72.5
4000	79.8	77.7	78.7	82.1	80.1	78.1	79.6	74.0	80.0	81.0	81.4	84.4	86.7	88.9	89.1	88.5	81.6	74.6	67.5
5000	73.6	72.2	73.4	76.6	74.7	72.7	74.1	68.6	74.7	75.7	75.9	79.1	81.4	83.5	84.0	83.5	76.5	69.4	62.3
6300	67.0	66.5	67.8	70.7	68.8	66.8	68.1	62.6	68.9	69.9	70.0	73.6	75.9	78.3	78.9	78.3	71.3	64.1	56.7
8000	62.2	62.0	62.6	64.7	62.9	61.0	62.2	56.7	63.5	64.3	65.0	68.7	71.4	74.3	75.3	74.5	67.4	60.2	52.5
10000	57.3	57.3	57.8	58.1	56.5	54.9	55.6	50.9	58.4	59.0	59.7	63.4	66.7	70.1	71.6	70.5	63.3	55.8	47.9
12500	52.1	52.1	52.7	52.0	51.0	49.2	50.0	44.6	53.0	53.7	54.3	58.2	62.1	65.9	67.5	66.4	59.1	51.4	42.8
16000	46.3	46.3	47.0	46.0	44.6	42.9	43.6	37.8	46.7	47.7	48.2	52.7	57.2	61.4	63.1	61.9	54.4	46.1	37.3
20000	39.4	39.4	39.9	38.7	37.1	35.5	36.4	29.6	39.6	41.0	41.3	46.1	51.5	56.4	58.8	57.0	49.0	40.1	30.9
25000	31.6	31.6	32.1	30.2	28.7	26.8	28.8	19.9	31.1	33.3	33.9	38.9	45.1	51.2	54.3	51.4	42.6	33.1	19.1

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
C-141A AIRCRAFT
ENG. TF33-P-7
GROUND RUNUP

OPERATION:
TAKEOFF POWER, 95% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-013-001
RUN 03
AIRCRAFT CODE 027
OPERATION CODE 04030
PROFILE VERSION A
08 APR 76
PAGE F3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	105.5	105.3	106.0	108.3	106.5	105.0	106.4	100.7	107.0	107.9	108.8	111.0	110.9	112.9	113.4	112.1	105.4	98.8	92.1
250	103.2	103.1	103.8	106.0	104.2	102.7	104.1	98.4	104.7	105.6	106.5	108.7	108.7	110.8	111.4	110.1	103.4	96.7	90.1
315	100.9	100.7	101.4	103.7	101.9	100.3	101.7	96.1	102.4	103.2	104.1	106.3	106.5	108.7	109.3	108.0	101.3	94.7	88.0
400	98.5	98.3	99.1	101.2	99.4	97.9	99.2	93.7	99.9	100.8	101.6	103.9	104.2	106.5	107.2	105.9	99.2	92.5	85.9
500	96.0	95.9	96.6	98.7	96.9	95.3	96.7	91.1	97.4	98.3	99.0	101.3	101.9	104.3	105.0	103.7	97.0	90.4	83.7
630	93.4	93.3	94.0	96.0	94.3	92.7	94.0	88.5	94.8	95.7	96.3	98.7	99.5	101.9	102.7	101.4	94.7	88.1	81.4
800	90.8	90.6	91.4	93.3	91.5	89.9	91.2	85.6	92.1	92.9	93.6	96.0	97.0	99.5	100.3	99.0	92.4	85.7	79.0
1000	88.0	87.8	88.6	90.4	88.7	87.0	88.2	83.0	89.3	90.1	90.7	93.2	94.4	96.9	97.8	96.5	89.9	83.2	76.5
1250	85.0	84.9	85.7	87.3	85.7	84.0	85.2	80.0	86.4	87.1	87.6	90.2	91.6	94.1	95.0	93.9	87.2	80.6	73.9
1600	82.0	81.9	82.7	84.1	82.5	80.8	81.9	77.0	83.3	84.0	84.5	87.2	88.8	91.2	92.1	91.1	84.5	77.8	71.1
2000	78.8	78.7	79.5	80.8	79.3	77.5	78.6	73.8	80.2	80.8	81.2	84.0	85.9	88.2	89.1	88.3	81.6	74.9	68.3
2500	75.4	75.3	76.1	77.3	75.8	74.1	75.1	70.4	76.9	77.5	77.7	80.7	82.6	84.8	85.7	85.0	78.3	71.7	65.0
3150	71.7	71.7	72.5	73.6	72.2	70.4	71.4	66.9	73.4	73.9	74.1	77.3	79.2	81.1	81.9	81.4	74.8	68.1	61.4
4000	67.8	67.7	68.5	69.6	68.3	66.5	67.5	63.1	69.6	70.1	70.3	73.6	75.4	77.1	77.8	77.5	70.8	64.1	57.5
5000	63.4	63.4	64.2	65.3	64.0	62.3	63.3	58.9	65.5	65.9	66.1	69.5	71.2	72.8	73.4	73.2	66.5	59.8	53.2
6300	58.8	58.8	59.5	60.5	59.4	57.7	58.6	54.4	61.1	61.4	61.6	65.1	66.8	68.3	68.9	68.7	62.0	55.4	48.7
8000	54.6	54.5	55.2	55.8	54.9	53.2	54.1	50.0	56.7	57.1	57.3	60.9	62.8	64.7	65.4	65.2	58.6	51.9	45.2
10000	50.1	50.0	50.6	50.9	50.0	48.4	49.2	45.3	52.0	52.4	52.7	56.4	58.6	60.8	61.7	61.5	54.8	48.2	41.5
12500	45.4	45.3	45.8	45.7	44.9	43.4	44.1	40.2	46.9	47.3	47.7	51.5	54.1	56.6	57.8	57.4	50.8	44.1	37.4
16000	40.3	40.2	40.7	40.2	39.5	38.0	38.6	34.7	41.4	41.9	42.3	46.1	49.3	52.3	53.7	53.1	46.4	39.8	33.1
20000	34.9	34.8	35.2	34.5	33.7	32.4	32.8	28.8	35.5	36.3	36.7	40.5	44.2	47.8	49.4	48.5	41.8	35.1	28.5
25000	29.1	29.0	29.3	28.5	27.6	26.5	26.8	22.7	29.3	30.4	30.9	34.6	38.9	43.3	45.2	43.6	37.0	30.3	23.6

> SP. DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 74-013-001
RUN 03
AIRCRAFT CODE 027
OPERATION CODE 04030
PROFILE VERSION A
08 APR 76
PAGE G3

NOISE SOURCE/SUBJECT:
C-141A AIRCRAFT
ENG. TF33-P-7
GROUND RUNUP

OPERATION:
TAKEOFF POWER, 95% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -6.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	>160	>170	>180
200	106.5	105.3	106.0	110.3	108.1	106.4	108.2	102.2	108.1	109.2	110.4	113.0	112.7	114.1	113.4	113.2	106.6	99.9	93.2
250	104.3	103.1	103.8	108.0	105.8	104.1	105.9	99.9	105.8	106.9	108.1	110.7	110.6	112.0	111.4	111.2	104.5	97.9	91.2
315	101.9	100.7	101.4	105.6	103.5	101.7	103.5	97.6	103.4	104.5	105.7	108.4	108.4	109.9	109.3	109.1	102.5	95.8	89.1
400	99.5	98.3	99.1	103.2	101.0	99.2	101.1	95.2	101.0	102.1	103.2	105.9	106.1	107.8	107.2	107.0	100.4	93.7	87.0
500	97.1	95.9	96.6	100.6	98.5	96.7	98.5	92.7	98.5	99.5	100.6	103.4	103.8	105.5	105.0	104.8	98.2	91.5	84.8
630	94.5	93.3	94.0	98.0	95.9	94.1	95.8	90.1	95.9	96.9	98.0	100.8	101.3	103.2	102.7	102.5	95.9	89.2	82.5
800	91.8	90.6	91.4	95.2	93.1	91.3	93.0	87.3	93.2	94.2	95.2	98.1	98.8	100.7	100.3	100.1	93.5	86.8	80.1
1000	89.0	87.8	88.6	92.3	90.2	88.4	90.1	84.5	90.4	91.3	92.3	95.3	96.2	98.1	97.8	97.7	91.0	84.3	77.7
1250	86.1	84.9	85.7	89.3	87.2	85.4	87.0	81.6	87.4	88.4	89.2	92.3	93.5	95.4	95.0	95.0	88.3	81.7	75.0
1600	83.0	81.9	82.7	86.1	84.1	82.2	83.8	78.5	84.4	85.3	86.1	89.3	90.7	92.5	92.1	92.2	85.6	78.9	72.2
2000	79.8	78.7	79.5	82.8	80.8	78.9	80.4	75.3	81.2	82.1	82.8	86.1	87.7	89.4	89.1	89.4	82.7	76.1	69.4
2500	76.4	75.3	76.1	79.3	77.4	75.5	76.9	71.9	77.9	78.7	79.4	82.8	84.5	86.0	85.7	86.1	79.5	72.8	66.1
3150	72.8	71.7	72.5	75.6	73.8	71.8	73.3	68.4	74.4	75.1	75.8	79.3	81.0	82.4	81.9	82.6	75.9	69.2	62.6
4000	68.6	67.7	68.5	71.2	69.6	67.6	69.0	64.3	70.5	71.1	71.6	75.2	76.9	78.1	77.8	78.4	71.7	65.0	58.4
5000	64.6	63.4	64.2	66.4	65.0	63.1	64.4	59.8	66.1	66.7	67.1	70.7	72.3	73.5	73.4	73.8	67.2	60.5	53.8
6300	59.2	58.8	59.5	61.3	60.0	58.2	59.4	55.0	61.5	61.9	62.3	65.9	67.5	68.8	68.9	69.1	62.5	55.8	49.1
8000	54.8	54.5	55.2	56.2	55.2	53.5	54.5	50.3	56.9	57.3	57.6	61.3	63.2	64.9	65.4	65.5	58.8	52.1	45.5
10000	50.1	50.0	50.6	50.9	50.0	48.4	49.2	45.3	52.0	52.4	52.7	56.4	58.6	60.8	61.7	61.5	54.8	48.2	41.5
12500	45.4	45.3	45.8	45.7	44.9	43.4	44.1	40.2	46.9	47.3	47.7	51.5	54.1	56.6	57.8	57.4	50.8	44.1	37.4
16000	40.3	40.2	40.7	40.2	39.5	38.0	38.6	34.7	41.4	41.9	42.3	46.1	49.3	52.3	53.7	53.1	46.4	39.8	33.1
20000	34.9	34.8	35.2	34.5	33.7	32.4	32.8	28.8	35.5	36.3	36.7	40.5	44.2	47.8	49.4	48.5	41.8	35.1	28.5
25000	29.1	29.0	29.3	28.5	27.6	26.5	26.8	22.7	29.3	30.4	30.9	34.6	38.9	43.3	45.2	43.6	37.0	30.3	23.6

> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

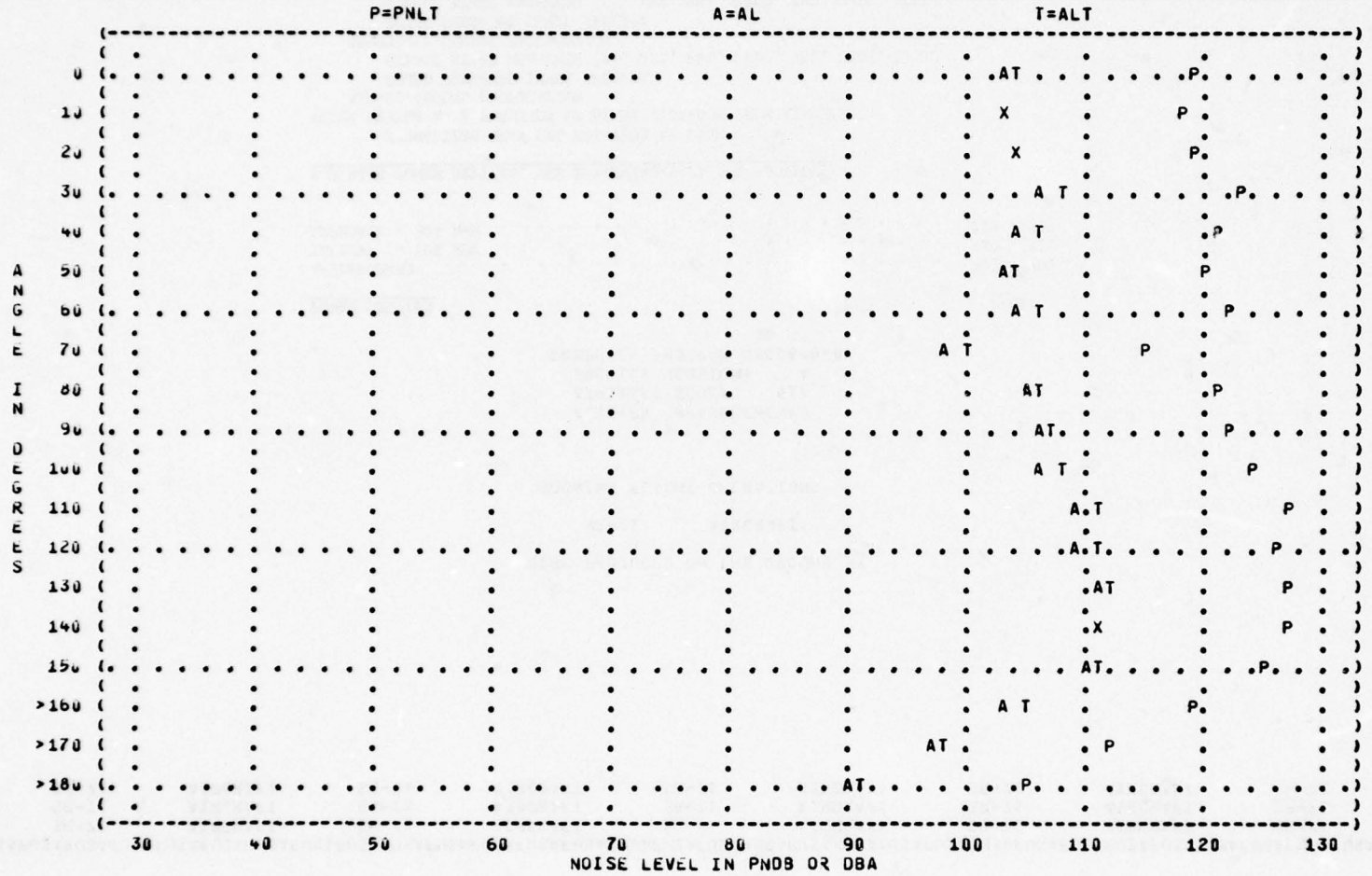
NOISE SOURCE/SUBJECT:
C-141A AIRCRAFT
ENG. TF33-P-7
GROUND RUNUP

OPERATION:
TAKEOFF POWER, 95% RPM
SINGLE ENGINE

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -6.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 74-013-001
RUN 03
AIRCRAFT CODE 027
OPERATION CODE 04030
PROFILE VERSION A
08 APR 76
PAGE J3

P=PNLT A=AL T=ALT



> SPL DATA WERE EXTRAPOLATED FOR THIS ANGLE.

USAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAF

NOISE PRODUCED ON THE GROUND BY

SR-71 AIRCRAFT

DURING FLIGHT OPERATIONS

FLYOVER MEASUREMENTS
AIRCRAFT CODE: 517
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 6.6

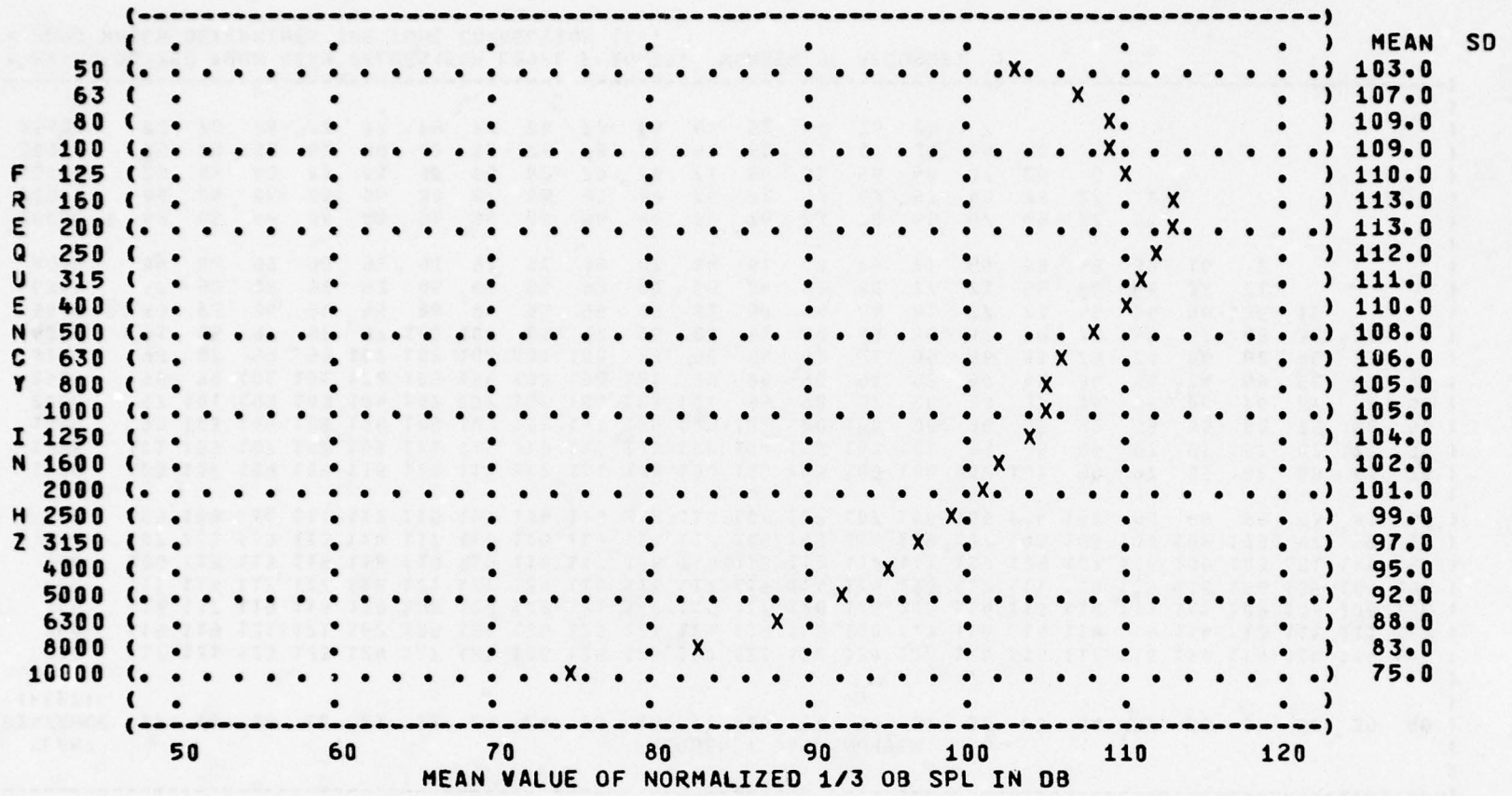
POWER SETTING	PAGE
AFTERBURNER	701 - 709
TAKEOFF - 70% RPM	710 - 718
APPROACH - 30% RPM	719 - 727

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED MEAN SPL SPECTRUM AT PNLM
NOISE LEVELS AS A FUNCTION OF SLANT DISTANCE FROM AIRCRAFT
AIR-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)
GROUND-TO-GROUND PROPAGATION
SOUND PRESSURE LEVEL SPECTRA
SINGLE EVENT MEASURES (AL, ALT, PNL, PNLT, SEL, SELT, EPNL)

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

USAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAFUSAF



SR-71 AFTERBURNER 100 % RPM

AIRSPEED = 200 KNOTS	TEMP = 59 F	PNLT = 127.6 PNDB
SLANT DISTANCE = 1000 FEET	REL HUMID = 70 %	PNL = 127.6 PNDB
		ALT = 115.0 DBA
NO. OF RECORDS = 1	IDENT: 6.6-517-101-090677	AL = 115.0 DBA

(DATA PROVIDED BY BOLT BERANEK & NEWMAN INC)

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 517
OPS CODE: 101
PROFILE VER: A
09 JUN 77
PAGE H1

AIRCRAFT: SR-71

OPERATION:
AFTERBURNER
100 % RPM
AIRSPEED = 200 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	117	121	123	123	124	127	127	126	125	125	123	121	120	120	120	118	118	117	116	116	114	114	114	114
250	115	119	121	121	122	125	125	124	123	123	121	119	118	118	118	116	116	114	114	114	112	111	111	110
315	113	117	119	119	120	123	123	122	121	120	119	117	116	116	115	114	113	112	111	111	109	108	108	106
400	111	115	117	117	118	121	121	120	119	118	117	115	114	114	113	112	111	110	109	108	106	105	104	102
500	109	113	115	115	116	119	119	118	117	116	114	113	112	112	111	109	109	107	106	105	103	101	100	97
630	107	111	113	113	114	117	117	116	115	114	112	110	109	110	109	107	106	105	103	102	100	97	95	91
800	105	109	111	111	112	115	115	114	113	112	110	108	107	107	106	105	104	102	100	99	96	93	89	83
1000	103	107	109	109	110	113	113	112	111	110	108	106	105	105	104	102	101	99	97	95	92	88	83	75
1250	101	105	107	107	108	111	111	110	109	108	106	104	103	103	101	99	98	96	93	91	87	82	75	65
1600	99	103	105	105	106	109	109	108	107	106	104	101	100	100	99	96	95	92	89	86	82	75	66	53
2000	97	101	103	103	104	107	107	106	104	103	101	99	98	97	96	93	91	88	85	80	76	67	56	38
2500	95	99	101	101	102	105	104	103	102	101	99	96	95	94	93	90	88	84	80	74	68	58	43	20
3150	93	97	99	99	100	102	102	101	100	99	96	94	92	91	89	86	83	79	73	66	60	46	27	
4000	91	95	97	97	97	100	100	99	97	96	93	91	89	88	86	82	79	73	66	57	49	32	7	
5000	89	93	94	94	95	98	98	96	95	93	91	88	86	84	81	77	73	66	58	46	36	15		
6300	87	90	92	92	93	96	95	94	92	90	88	84	82	80	77	71	66	58	48	32	21			
8000	84	88	90	90	91	93	93	91	89	87	84	81	78	75	71	65	59	49	35	16	2			
10000	82	86	88	88	88	91	90	88	86	84	80	76	73	70	65	57	49	37	20					
12500	80	84	86	85	86	88	87	85	83	80	76	72	67	63	57	48	38	23	2					
16000	78	81	83	83	83	85	84	82	79	76	71	66	61	56	48	37	25	6						
20000	75	79	81	80	80	82	81	78	75	71	66	60	53	47	38	24	8							
25000	73	76	78	77	77	79	77	74	70	66	60	52	44	36	24	7								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
SR-71

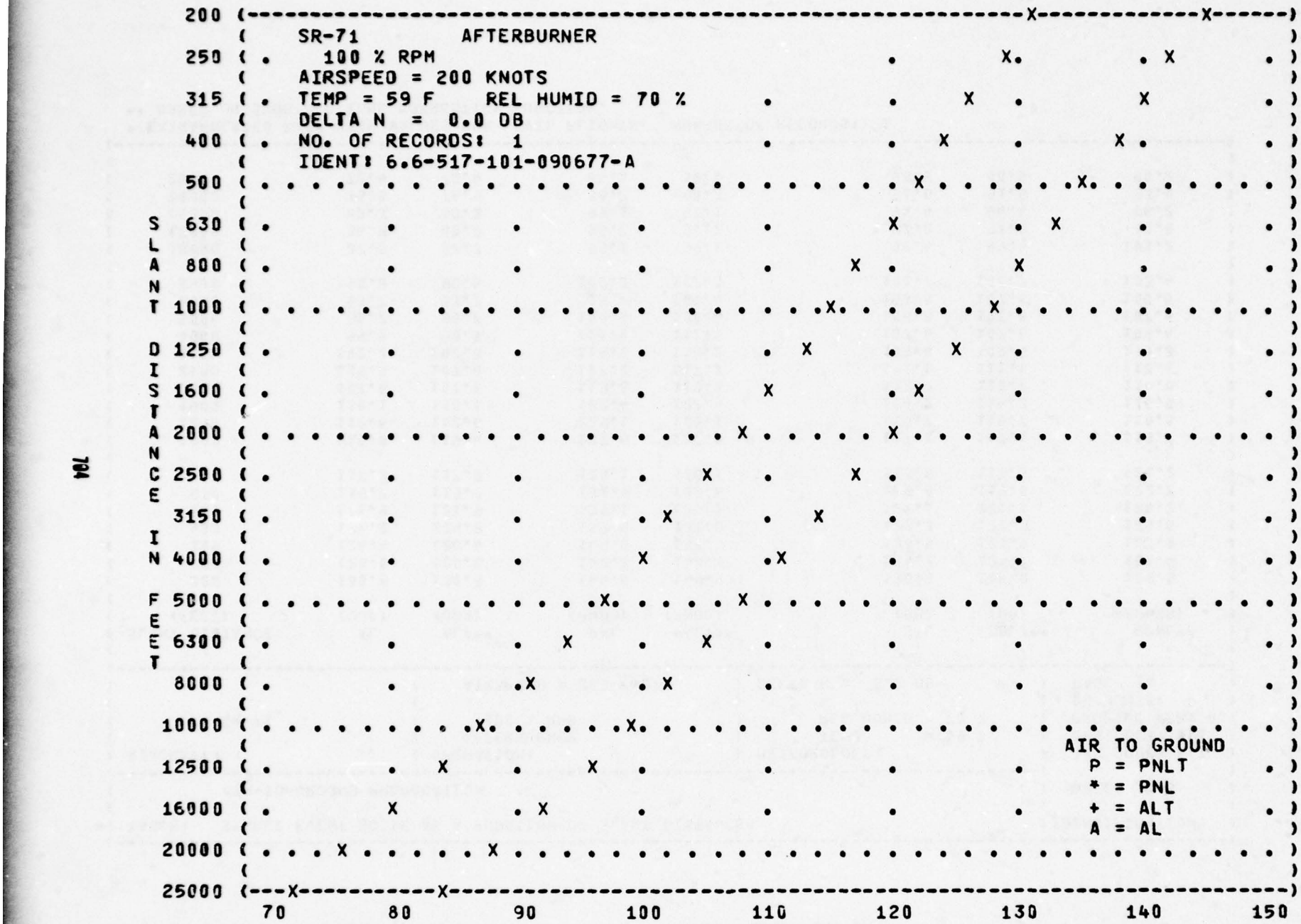
OPERATION:
AFTERBURNER
100 % RPM
AIRSPEED = 200 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 517
OPS CODE: 101
PROFILE VER: A
09 JUN 77
PAGE I1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	130.8	130.8	144.5	144.5	125.9	125.9	129.6
250	128.6	128.6	142.3	142.3	124.7	124.7	128.4
315	126.4	126.4	140.0	140.0	123.5	123.5	127.0
400	124.2	124.2	137.6	137.6	122.3	122.3	125.6
500	121.9	121.9	135.1	135.1	121.1	121.1	124.2
630	119.7	119.7	132.6	132.6	119.8	119.8	122.7
800	117.3	117.3	130.1	130.1	118.5	118.5	121.2
1000	115.0	115.0	127.6	127.6	117.1	117.1	119.7
1250	112.6	112.6	125.1	125.1	115.7	115.7	118.1
1600	110.1	110.1	122.4	122.4	114.2	114.2	116.5
2000	107.6	107.6	119.8	119.8	112.7	112.7	114.8
2500	105.0	105.0	117.0	117.0	111.1	111.1	113.1
3150	102.3	102.3	114.2	114.2	109.4	109.4	111.3
4000	99.5	99.5	111.4	111.4	107.6	107.6	109.4
5000	96.7	96.7	108.4	108.4	105.8	105.8	107.5
6300	93.7	93.7	105.4	105.4	103.8	103.8	105.5
8000	90.6	90.6	102.3	102.3	101.7	101.7	103.4
10000	87.3	87.3	99.1	99.1	99.4	99.4	101.2
12500	83.9	83.9	95.7	95.7	97.0	97.0	98.8
16000	80.3	80.3	92.1	92.1	94.4	94.4	96.2
20000	76.5	76.5	88.3	88.3	91.6	91.6	93.4
25000	72.4	72.4	84.1	84.1	88.5	88.5	90.2

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


SR-71 AFTERBURNER
100 % RPM
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-517-101-090677-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
70
80
90
100
110
120
130
140
150
NOISE LEVEL IN DB

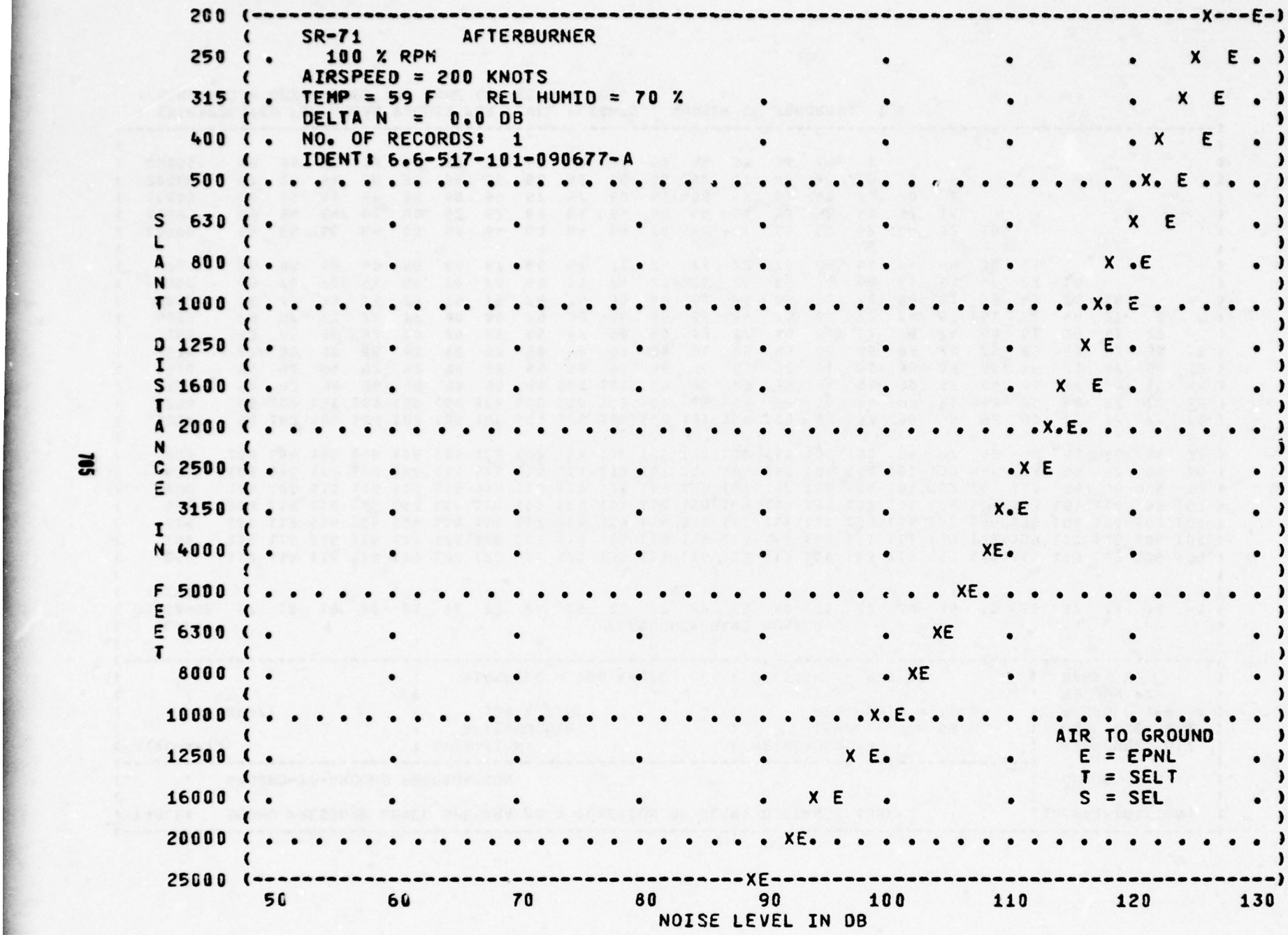

SR-71 AFTERBURNER
100 % RPM
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-517-101-090677-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6
A/C CODE: 517
OPS CODE: 101
PROFILE VER: A
09 JUN 77
PAGE L1

AIRCRAFT: SR-71

OPERATION:
AFTERBURNER
100 % RPM
AIRSPEED = 200 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																								
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	112	116	118	118	119	122	122	121	120	120	118	116	115	115	115	113	113	112	111	111	109	109	109	109
250	110	114	116	116	117	120	120	119	118	118	116	114	113	113	113	111	111	109	109	109	107	106	106	105
315	108	112	114	114	115	118	118	117	116	115	114	112	111	111	110	109	108	107	106	106	104	103	103	101
400	106	110	112	112	113	116	116	115	114	113	112	110	109	109	108	107	106	105	104	103	101	100	99	97
500	104	108	110	110	111	114	114	113	112	111	109	108	107	107	106	104	104	102	101	100	98	96	95	92
630	102	106	108	108	108	111	111	110	110	109	107	105	104	105	104	102	101	100	98	97	95	92	90	86
800	100	104	106	106	106	108	108	108	108	107	105	103	102	102	101	100	99	97	95	94	91	88	84	78
1000	98	102	104	103	103	105	105	105	106	105	103	101	100	100	99	97	96	94	92	90	87	83	78	70
1250	96	100	101	100	100	102	102	102	103	103	101	99	98	98	96	94	93	91	88	86	82	77	70	60
1600	94	97	98	96	96	99	99	98	100	101	99	96	95	95	94	91	90	87	84	81	77	70	61	48
2000	91	93	94	92	92	95	95	94	96	98	96	94	93	92	91	88	86	83	80	75	71	62	51	33
2500	87	89	90	88	88	90	90	90	92	95	94	91	90	89	88	85	83	79	75	69	63	53	38	15
3150	83	85	85	83	83	85	85	85	87	90	90	89	87	86	84	81	78	74	68	61	55	41	22	
4000	79	80	80	78	77	80	80	79	82	86	86	85	84	83	81	77	74	68	61	52	44	27	2	
5000	74	75	75	73	73	75	75	74	76	80	82	81	80	79	76	72	68	61	53	41	31	10		
6300	69	70	70	68	68	70	70	69	70	74	78	76	76	75	72	66	61	53	43	27	16			
8000	66	68	68	66	66	68	67	66	67	71	74	73	72	70	66	60	54	44	30	11				
10000	64	66	66	64	63	65	64	63	64	68	70	68	67	65	60	52	44	32	15					
12500	62	64	64	61	61	62	62	60	61	64	66	64	61	58	52	43	33	18						
16000	60	61	61	59	58	60	59	57	57	60	61	58	55	51	43	32	20	1						
20000	57	59	59	56	55	56	55	53	53	55	56	52	47	42	33	19	3							
25000	55	56	56	53	52	53	51	49	48	50	50	44	38	31	19	2								

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
SR-71

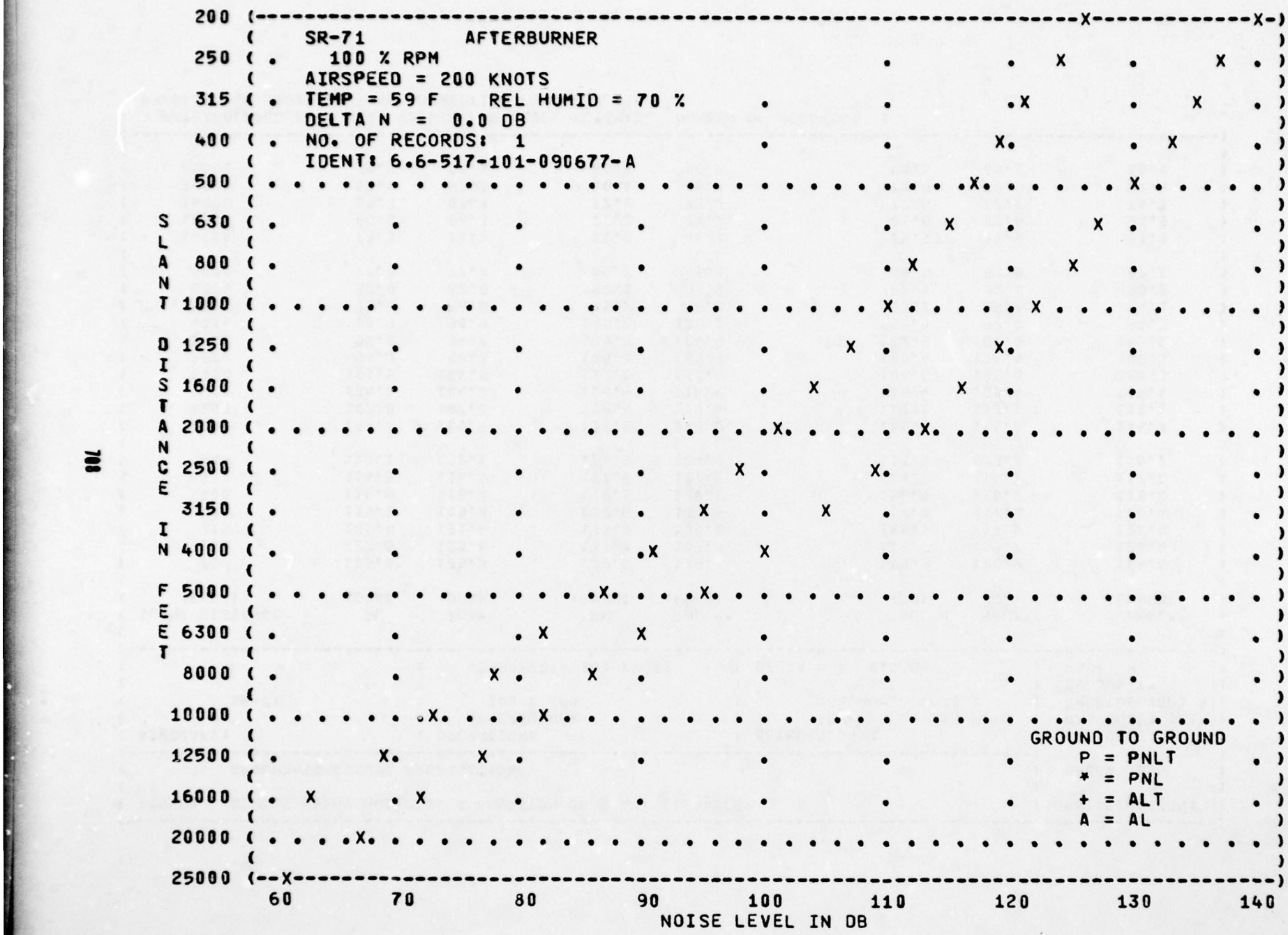
OPERATION:
AFTERBURNER
100 % RPM
AIRSPEED = 200 KNOTS

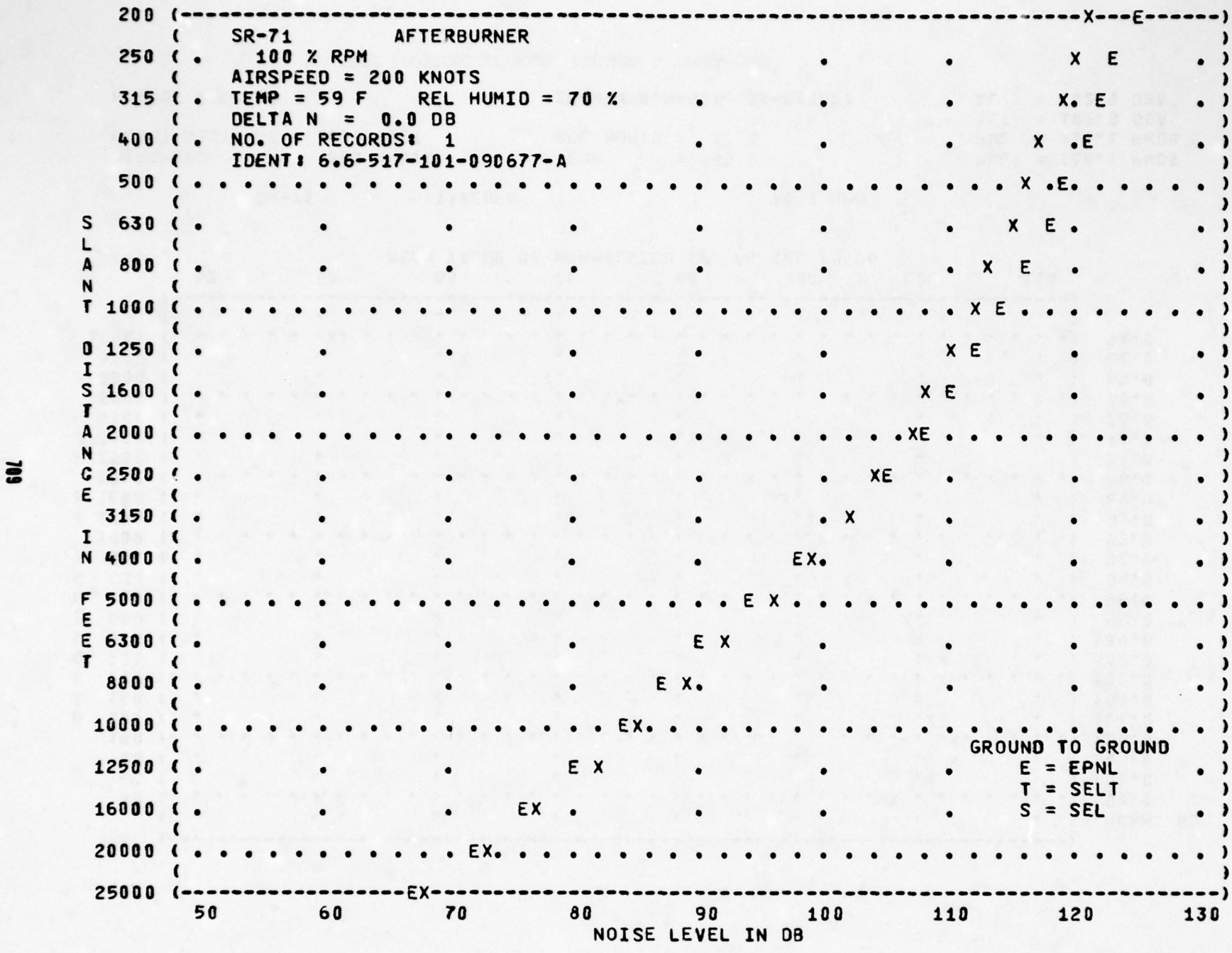
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

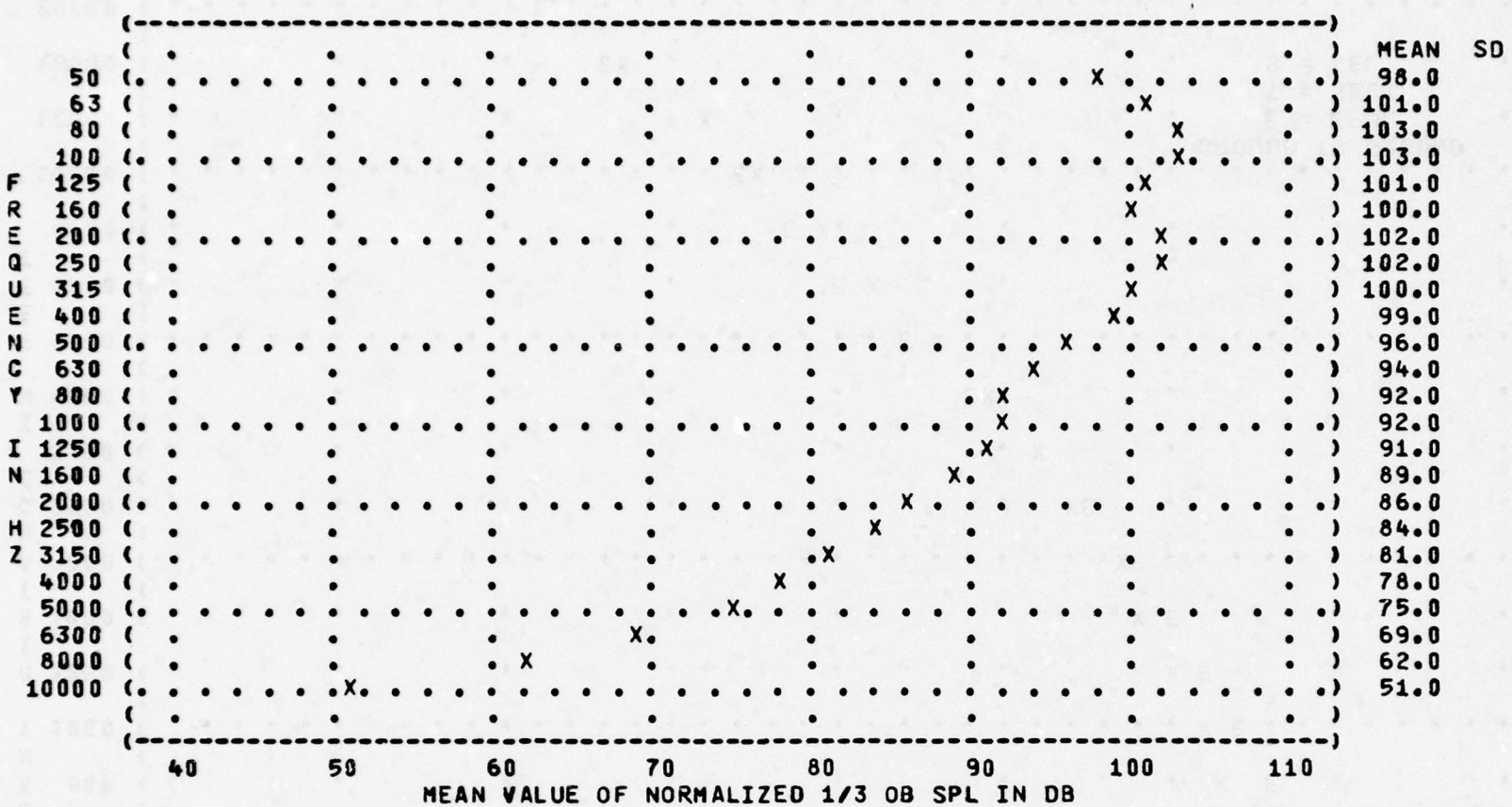
A/C CODE: 517
OPS CODE: 101
PROFILE VER: A
09 JUN 77
PAGE M1

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	125.8	125.8	139.5	139.5	120.9	120.9	124.6
250	123.6	123.6	137.3	137.3	119.7	119.7	123.4
315	121.4	121.4	135.0	135.0	118.5	118.5	122.0
400	119.2	119.2	132.6	132.6	117.3	117.3	120.6
500	116.9	116.9	130.1	130.1	116.0	116.0	119.2
630	114.5	114.5	127.5	127.5	114.7	114.7	117.6
800	112.1	112.1	124.9	124.9	113.3	113.3	116.0
1000	109.7	109.7	122.2	122.2	111.8	111.8	114.3
1250	107.0	107.0	119.4	119.4	110.1	110.1	112.4
1600	104.3	104.3	116.4	116.4	108.4	108.4	110.4
2000	101.5	101.5	113.2	113.2	106.6	106.6	108.3
2500	98.3	98.3	109.3	109.3	104.4	104.4	105.3
3150	94.8	94.8	104.9	104.9	101.9	101.9	102.0
4000	90.9	90.9	100.2	100.2	99.0	99.0	98.3
5000	86.6	86.6	95.2	95.2	95.7	95.7	94.3
6300	82.0	82.0	90.1	90.1	92.1	92.1	90.2
8000	77.8	77.8	86.1	86.1	88.9	88.9	87.1
10000	73.3	73.3	81.8	81.8	85.5	85.5	83.9
12500	68.5	68.5	77.2	77.2	81.6	81.6	80.3
16000	63.3	63.3	72.2	72.2	77.5	77.5	76.3
20000	57.8	57.8	66.8	66.8	72.9	72.9	71.8
25000	52.0	52.0	60.8	60.8	68.1	68.1	66.9

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


SR-71 AFTERBURNER
100 % RPM
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-517-101-090677-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


SR-71 AFTERBURNER
100 % RPM
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-517-101-090677-A
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB



SR-71 TAKEOFF 70 % RPM

AIRSPEED = 200 KNOTS
SLANT DISTANCE = 1000 FEET

NO. OF RECORDS = 1

TEMP = 59 F
REL HUMID = 70 %

IDENT: 6.6-517-103-090677

PNLT = 116.1 PNDB
PNL = 116.1 PNDB
ALT = 102.9 DBA
AL = 102.9 DBA

(DATA PROVIDED BY BOLT BERANEK & NEWMAN INC)

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: SR-71

OPERATION:
TAKEOFF
70 % RPM
AIRSPEED = 200 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 517
OPS CODE: 103
PROFILE VER: A
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SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	112	115	117	117	115	114	116	116	115	114	111	109	107	108	107	106	104	103	102	102	100	99	99	99
250	110	113	115	115	113	112	114	114	113	112	109	107	105	106	105	104	102	101	99	99	97	96	96	95
315	108	111	113	113	111	110	112	112	110	110	107	105	103	104	103	102	99	98	97	96	95	93	92	90
400	106	109	111	111	109	108	110	110	108	108	105	103	101	101	101	99	97	96	94	93	91	89	87	84
500	104	107	109	109	107	106	108	108	106	105	103	101	99	99	98	97	94	93	91	90	88	85	82	78
630	102	105	107	107	105	104	106	106	104	103	100	99	97	97	96	94	92	90	88	86	84	80	77	71
800	100	103	105	105	103	102	104	104	102	101	98	96	94	94	94	92	89	87	85	82	80	75	70	62
1000	98	101	103	103	101	100	102	102	100	99	96	94	92	92	91	89	86	84	81	78	75	69	62	51
1250	96	99	101	101	99	98	100	100	98	97	94	92	90	89	88	86	83	80	77	73	69	62	53	38
1600	94	97	99	99	97	96	98	98	96	94	91	89	87	87	85	83	79	76	72	67	63	53	41	22
2000	92	95	97	97	95	94	96	95	93	92	89	87	84	84	82	79	75	72	67	60	55	43	27	3
2500	90	93	95	95	93	91	93	93	91	90	86	84	81	81	79	75	71	67	60	52	46	31	10	
3150	88	91	93	93	90	89	91	91	88	87	84	81	78	77	75	71	66	60	53	42	35	16		
4000	86	89	90	90	88	87	89	88	86	84	81	78	75	73	70	66	60	53	44	31	21			
5000	84	86	88	88	86	85	86	86	83	81	77	74	71	69	65	60	53	45	33	16	5			
6300	81	84	86	86	84	82	84	83	80	78	74	70	66	64	60	53	45	35	20					
8000	79	82	84	83	81	80	81	80	77	75	70	66	61	58	53	45	35	23	4					
10000	77	80	81	81	78	77	78	77	74	71	66	61	56	51	45	36	23	8						
12500	75	77	79	78	76	74	75	74	70	67	61	55	49	43	36	24	9							
16000	72	75	76	76	73	71	71	70	66	62	55	49	41	34	24	10								
20000	70	72	74	73	70	67	67	65	61	56	48	41	32	23	10									
25000	67	70	71	70	66	63	63	60	55	49	41	31	20	9										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
SR-71

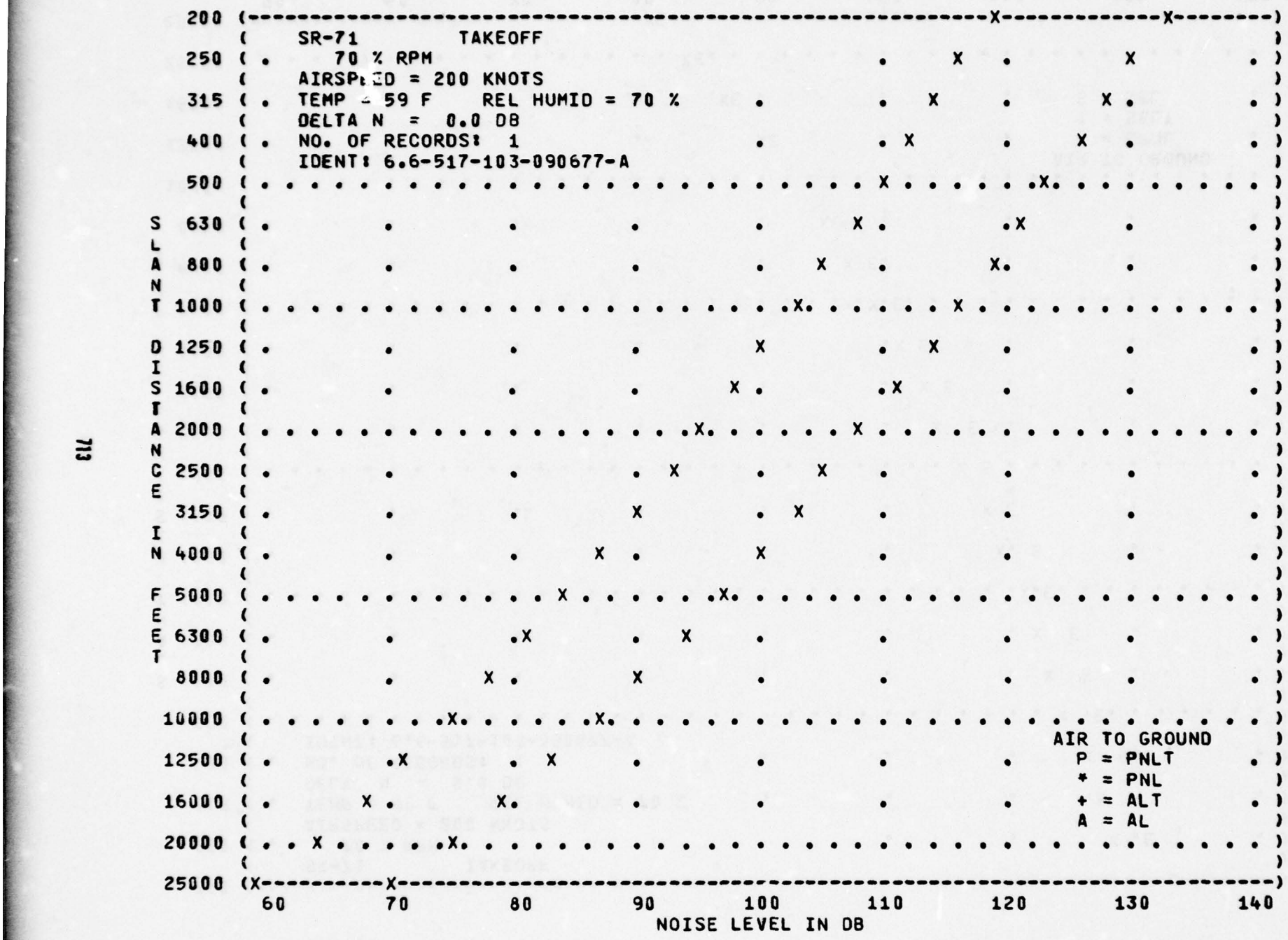
OPERATION:
TAKEOFF
70 % RPM
AIRSPEED = 200 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 517
OPS CODE: 103
PROFILE VER: A
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SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	118.6	118.6	132.6	132.6	119.2	119.2	122.6
250	116.4	116.4	130.4	130.4	118.0	118.0	121.4
315	114.3	114.3	128.1	128.1	116.9	116.9	120.1
400	112.1	112.1	125.8	125.8	115.7	115.7	118.8
500	109.8	109.8	123.5	123.5	114.4	114.4	117.5
630	107.6	107.6	121.1	121.1	113.2	113.2	116.1
800	105.3	105.3	118.6	118.6	111.9	111.9	114.6
1000	102.9	102.9	116.1	116.1	110.5	110.5	113.1
1250	100.5	100.5	113.5	113.5	109.1	109.1	111.5
1600	98.0	98.0	110.9	110.9	107.6	107.6	109.9
2000	95.5	95.5	108.2	108.2	106.1	106.1	108.2
2500	92.9	92.9	105.5	105.5	104.5	104.5	106.5
3150	90.2	90.2	102.7	102.7	102.8	102.8	104.7
4000	87.4	87.4	99.8	99.8	101.0	101.0	102.8
5000	84.5	84.5	96.8	96.8	99.1	99.1	100.8
6300	81.4	81.4	93.7	93.7	97.0	97.0	98.7
8000	78.2	78.2	90.4	90.4	94.8	94.8	96.4
10000	74.9	74.9	86.9	86.9	92.5	92.5	93.9
12500	71.3	71.3	83.3	83.3	89.9	89.9	91.3
16000	67.5	67.5	79.2	79.2	87.1	87.1	88.2
20000	63.5	63.5	75.0	75.0	84.1	84.1	85.0
25000	59.2	59.2	70.5	70.5	80.9	80.9	81.5

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


SR-71 TAKEOFF
70 % RPM
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-517-103-090677-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
60
70
80
90
100
110
120
130
140
NOISE LEVEL IN DB

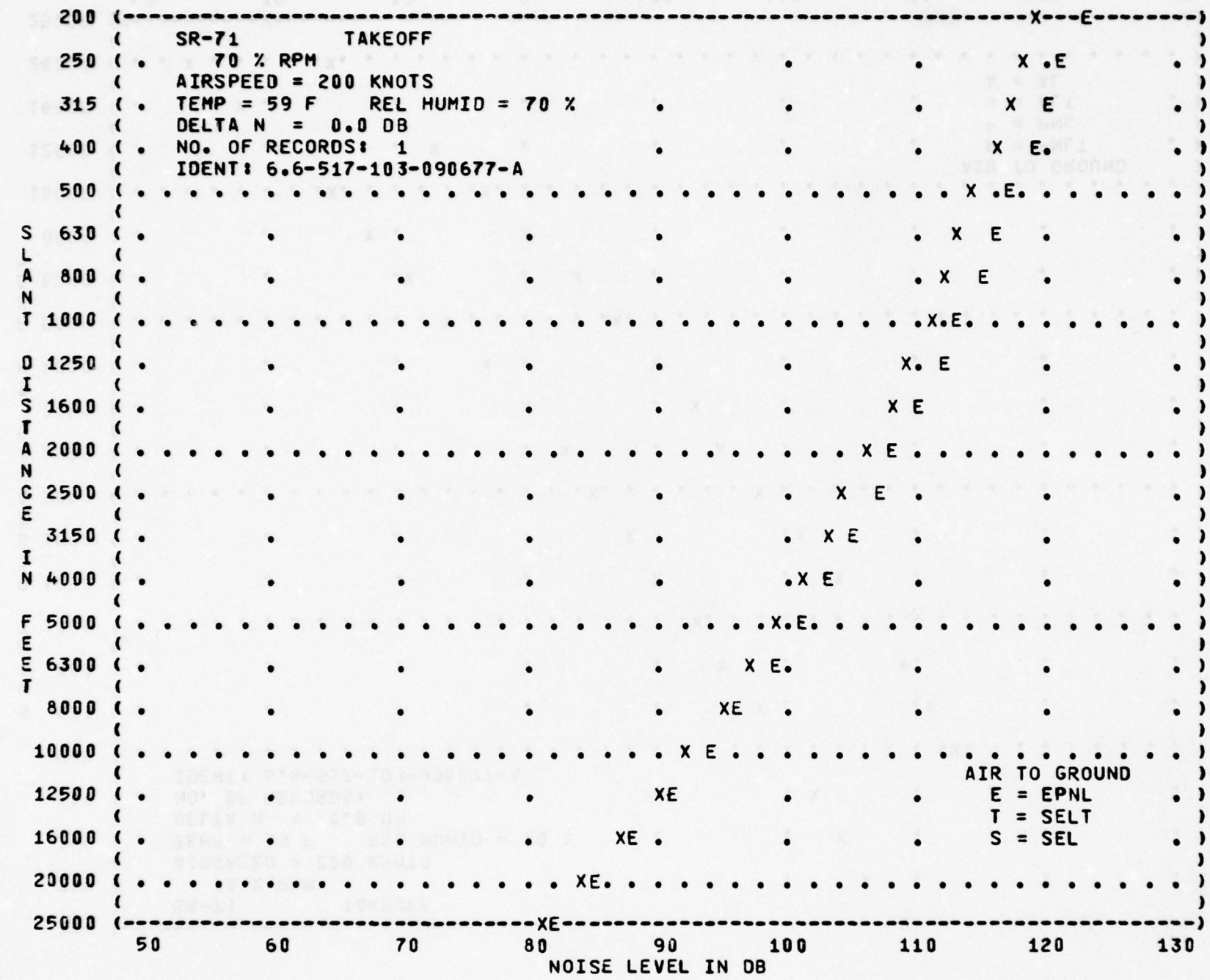

SR-71 TAKEOFF
70 % RPM
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-517-103-090677-A
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION: OMEGA 6.6

AIRCRAFT: SR-71

OPERATION: TAKEOFF, 70 % RPM, AIRSPEED = 200 KNOTS

METEOROLOGY: TEMP = 59 F, REL HUMID = 70 %, DELTA N = 0.0 DB

A/C CODE: 517
OPS CODE: 103
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SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	107	110	112	112	110	109	111	111	110	109	106	104	102	103	102	101	99	98	97	97	95	94	94	94
250	105	108	110	110	108	107	109	109	108	107	104	102	100	101	100	99	97	96	94	94	92	91	91	90
315	103	106	108	108	106	105	107	107	105	105	102	100	98	99	98	97	94	93	92	91	90	88	87	85
400	101	104	106	106	104	103	105	105	103	103	100	98	96	96	96	94	92	91	89	88	86	84	82	79
500	99	102	104	104	102	101	103	103	101	100	98	96	94	94	93	92	89	88	86	85	83	80	77	73
630	97	100	102	102	99	98	100	101	99	98	95	94	92	92	91	89	87	85	83	81	79	75	72	66
800	95	98	100	100	97	95	97	98	97	96	93	91	89	89	89	87	84	82	80	77	75	70	65	57
1000	93	96	98	97	94	92	94	95	95	94	91	89	87	87	86	84	81	79	76	73	70	64	57	46
1250	91	94	95	94	91	89	91	92	92	92	89	87	85	84	83	81	78	75	72	68	64	57	48	33
1600	89	91	92	90	87	86	87	88	88	89	86	84	82	82	80	78	74	71	67	62	58	48	36	17
2000	86	87	88	86	83	82	84	84	85	87	84	82	79	79	77	74	70	67	62	55	50	38	22	
2500	82	83	84	82	79	77	79	79	81	83	81	79	76	76	74	70	66	62	55	47	41	26	5	
3150	78	79	79	77	74	72	74	74	76	79	78	76	73	72	70	66	61	55	48	37	30	11		
4000	74	74	74	71	68	67	68	68	71	74	73	72	70	68	65	61	55	48	39	26	16			
5000	69	69	69	67	63	62	63	63	65	68	69	67	65	64	60	55	48	40	28	11				
6300	63	64	64	62	59	57	58	58	58	62	64	62	60	59	55	48	40	30	15					
8000	61	62	62	59	56	54	55	55	55	59	60	58	55	53	48	40	30	18						
10000	59	60	59	57	53	51	52	52	52	55	56	53	50	46	40	31	18	3						
12500	57	57	57	54	51	48	49	49	48	51	51	47	43	38	31	19	4							
16000	54	55	54	52	48	45	46	45	44	46	45	41	35	29	19	5								
20000	52	52	52	49	45	42	42	40	39	40	38	33	26	18	5									
25000	49	50	49	46	41	38	38	35	33	33	31	23	14	4										

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1

< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
SR-71

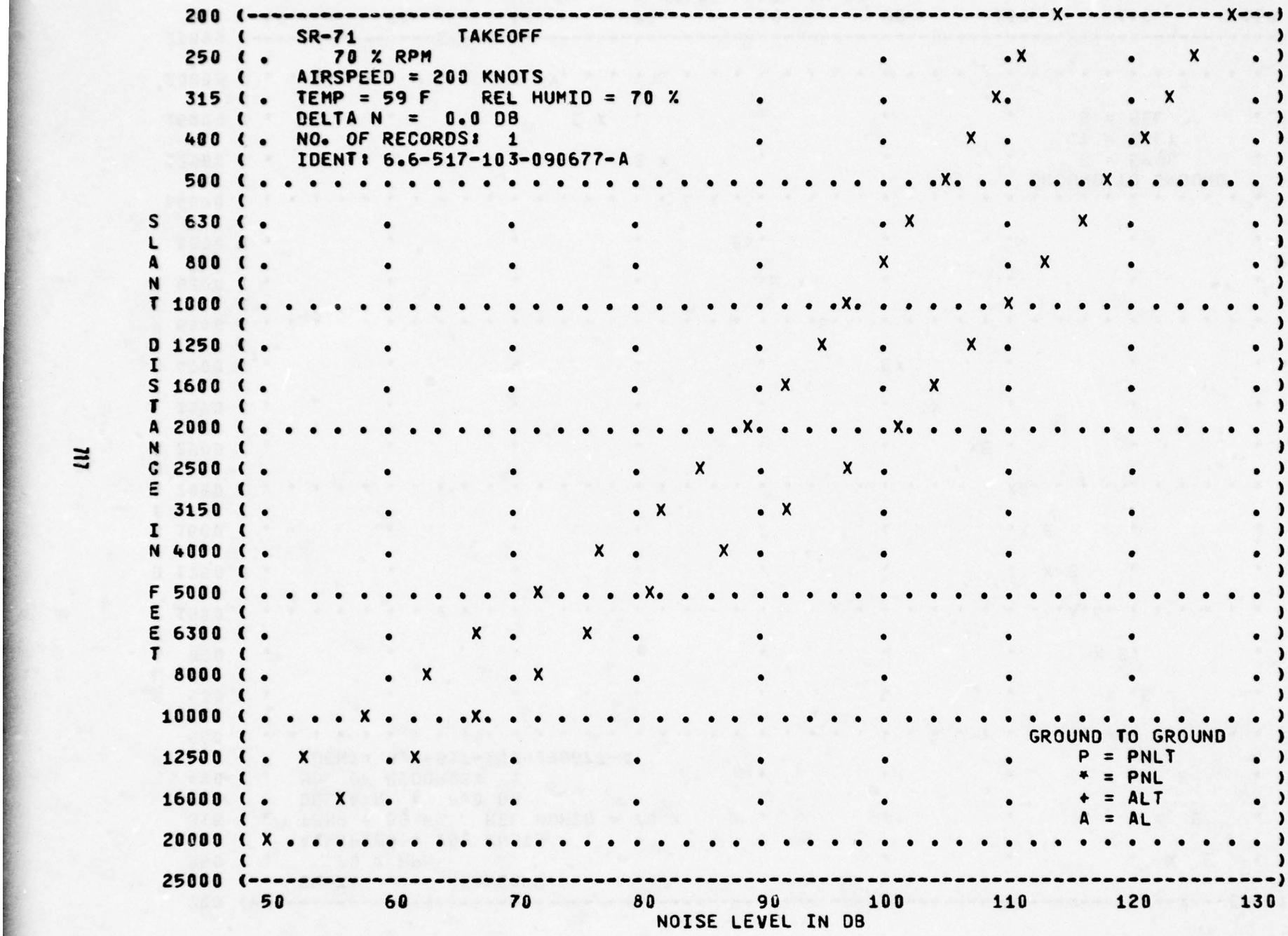
OPERATION:
TAKEOFF
70 % RPM
AIRSPEED = 200 KNOTS

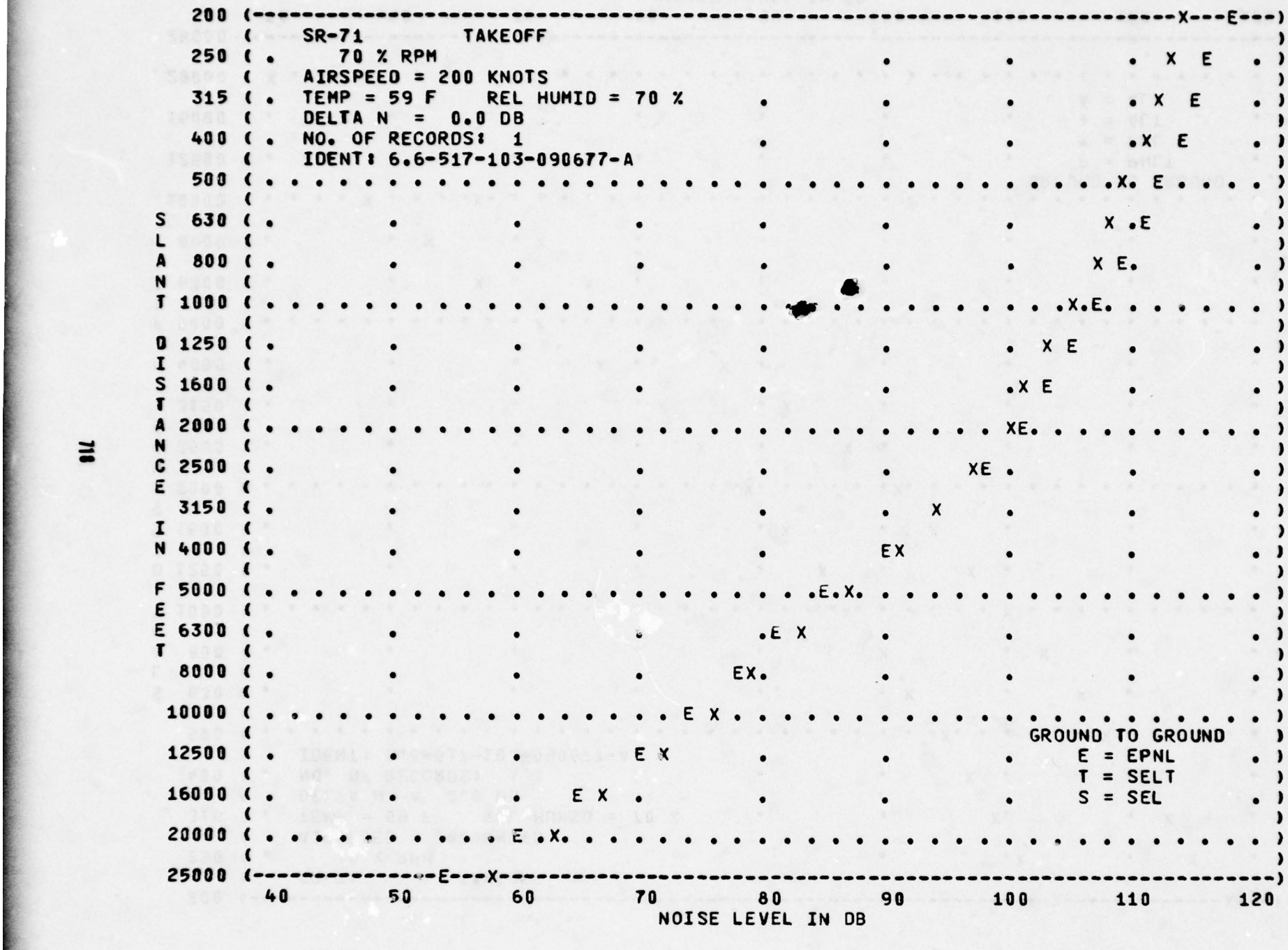
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

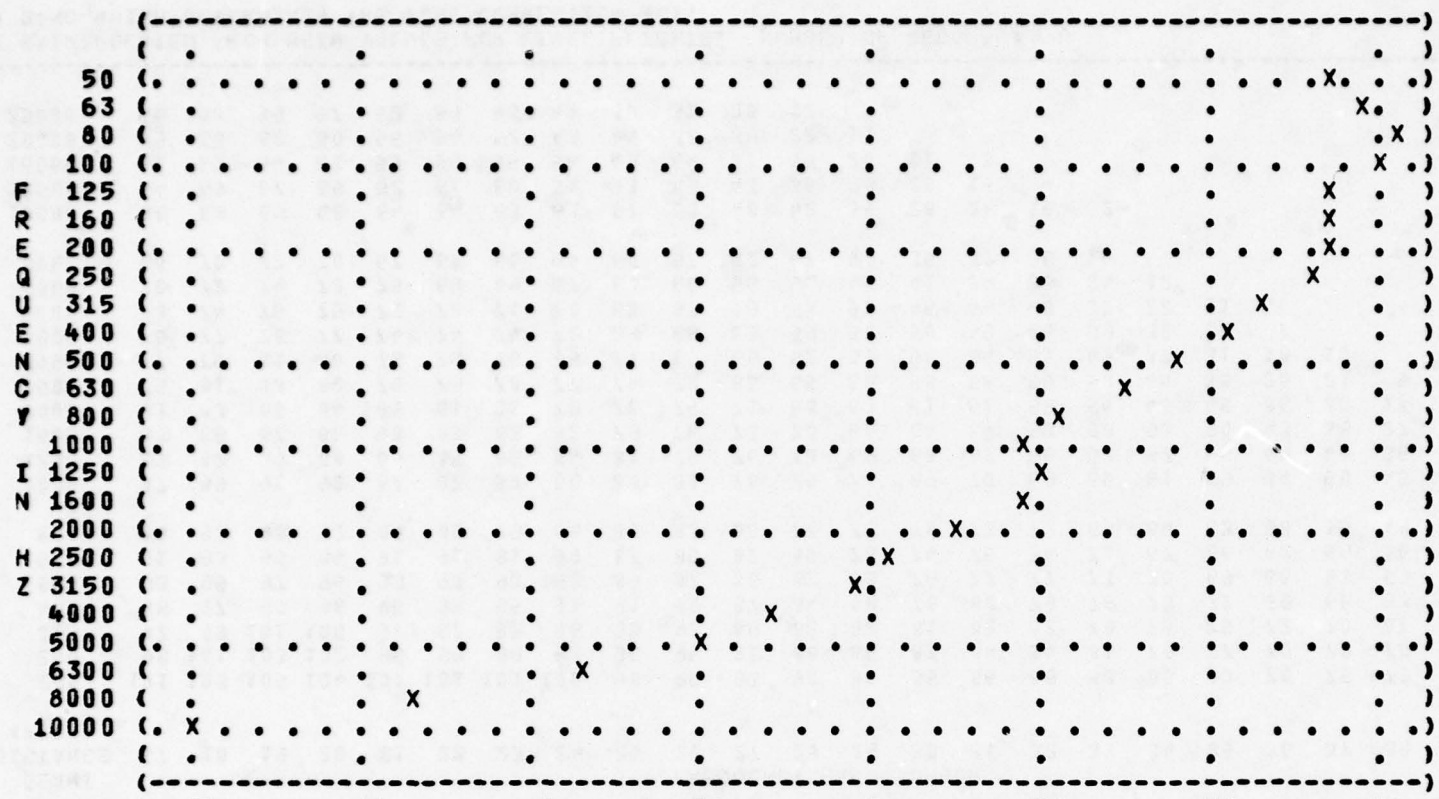
A/C CODE: 517
OPS CODE: 103
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SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	113.6	113.6	127.6	127.6	114.2	114.2	117.6
250	111.4	111.4	125.4	125.4	113.0	113.0	116.4
315	109.3	109.3	123.1	123.1	111.9	111.9	115.1
400	107.0	107.0	120.8	120.8	110.6	110.6	113.8
500	104.8	104.8	118.4	118.4	109.4	109.4	112.4
630	102.4	102.4	115.7	115.7	108.0	108.0	110.7
800	100.0	100.0	113.1	113.1	106.6	106.6	109.1
1000	97.4	97.4	110.4	110.4	105.0	105.0	107.4
1250	94.7	94.7	107.5	107.5	103.3	103.3	105.5
1600	91.9	91.9	104.4	104.4	101.5	101.5	103.4
2000	88.9	88.9	101.1	101.1	99.5	99.5	101.1
2500	85.5	85.5	96.9	96.9	97.1	97.1	98.0
3150	81.6	81.6	92.3	92.3	94.2	94.2	94.3
4000	77.3	77.3	86.9	86.9	90.9	90.9	90.0
5000	72.5	72.5	81.5	81.5	87.1	87.1	85.5
6300	67.3	67.3	75.9	75.9	82.9	82.9	80.9
8000	62.8	62.8	71.6	71.6	79.4	79.4	77.6
10000	58.1	58.1	67.0	67.0	75.7	75.7	74.0
12500	53.0	53.0	61.9	61.9	71.6	71.6	69.9
16000	47.7	47.7	56.4	56.4	67.3	67.3	65.4
20000	42.1	42.1	50.2	50.2	62.7	62.7	60.2
25000	36.7	36.7	42.6	42.6	58.3	58.3	53.6

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


SR-71 TAKEOFF
70 % RPM
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-517-103-090677-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
50
60
70
80
90
100
110
120
130
NOISE LEVEL IN DB
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL


SR-71 TAKEOFF
70 % RPM
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-517-103-090677-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB



SR-71 APPROACH 30 % RPM

AIRSPEED = 200 KNOTS	TEMP = 59 F	PNLT =	99.0 PNDB
SLANT DISTANCE = 1000 FEET	REL HUMID = 70 %	PNL =	99.0 PNDB
		ALT =	85.3 DBA
NO. OF RECORDS = 1	IDENT: 6.6-517-105-090677	AL =	85.3 DBA

(DATA PROVIDED BY BOLT BERANEK & NEWMAN INC)

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: SR-71

OPERATION:
APPROACH
30 % RPM
AIRSPEED = 200 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 517
OPS CODE: 105
PROFILE VER: A
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SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																							
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	101	103	105	104	101	101	101	100	98	96	93	90	86	85	86	86	83	80	80	78	75	73	70	68
250	99	101	103	102	99	99	99	98	96	94	91	88	84	83	84	84	81	78	77	75	72	70	67	64
315	97	99	101	100	97	97	97	96	93	92	89	86	82	81	82	82	78	75	75	72	70	67	63	59
400	95	97	99	98	95	95	95	94	91	90	87	84	80	78	80	79	76	73	72	69	66	63	58	53
500	93	95	97	96	93	93	93	92	89	87	85	82	78	76	77	77	73	70	69	66	63	59	53	47
630	91	93	95	94	91	91	91	90	87	85	82	80	76	74	75	74	71	67	66	62	59	54	48	40
800	89	91	93	92	89	89	89	88	85	83	80	77	73	71	73	72	68	64	63	58	55	49	41	31
1000	87	89	91	90	87	87	87	86	83	81	78	75	71	69	70	69	65	61	59	54	50	43	33	20
1250	85	87	89	88	85	85	85	84	81	79	76	73	69	66	67	66	62	57	55	49	44	36	24	7
1600	83	85	87	86	83	83	83	82	79	76	73	70	66	64	64	63	58	53	50	43	38	27	12	
2000	81	83	85	84	81	81	81	79	76	74	71	68	63	61	61	59	54	49	45	36	30	17		
2500	79	81	83	82	79	78	78	77	74	72	68	65	60	58	58	55	50	44	38	28	21	5		
3150	77	79	81	80	76	76	76	75	71	69	66	62	57	54	54	51	45	37	31	18	10			
4000	75	77	78	77	74	74	74	72	69	66	63	59	54	50	49	46	39	30	22	7				
5000	73	74	76	75	72	72	71	70	66	63	59	55	50	46	44	40	32	22	11					
6300	70	72	74	73	70	69	69	67	63	60	56	51	45	41	39	33	24	12						
8000	68	70	72	70	67	67	66	64	60	57	52	47	40	35	32	25	14							
10000	66	68	69	68	64	64	63	61	57	53	48	42	35	28	24	16	2							
12500	64	65	67	65	62	61	60	58	53	49	43	36	28	20	15	4								
16000	61	63	64	63	59	58	56	54	49	44	37	30	20	11	3									
20000	59	60	62	60	56	54	52	49	44	38	30	22	11											
25000	56	58	59	57	52	50	48	44	38	31	23	12												

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

AIR-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
SR-71

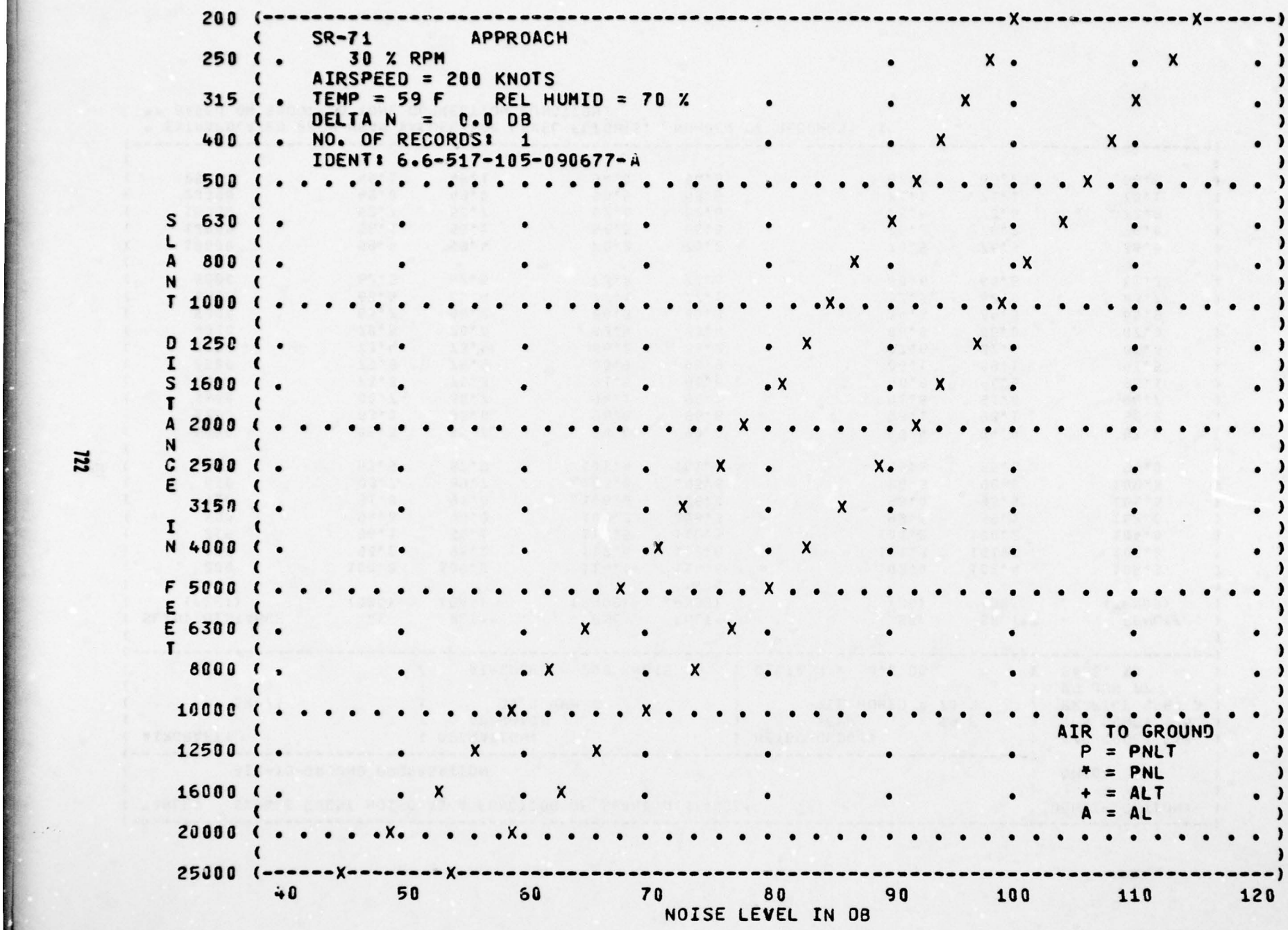
OPERATION:
APPROACH
30 % RPM
AIRSPEED = 200 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 517
OPS CODE: 105
PROFILE VER: A
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SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	100.2	100.2	114.8	114.8	102.4	102.4	106.3
250	98.2	98.2	112.6	112.6	101.3	101.3	105.2
315	96.1	96.1	110.5	110.5	100.2	100.2	104.0
400	94.0	94.0	108.3	108.3	99.1	99.1	102.8
500	91.8	91.8	106.0	106.0	98.0	98.0	101.6
630	89.7	89.7	103.8	103.8	96.8	96.8	100.3
800	87.5	87.5	101.4	101.4	95.6	95.6	99.0
1000	85.3	85.3	99.0	99.0	94.4	94.4	97.6
1250	83.0	83.0	96.6	96.6	93.1	93.1	96.2
1600	80.7	80.7	94.1	94.1	91.8	91.8	94.7
2000	78.3	78.3	91.6	91.6	90.5	90.5	93.1
2500	75.9	75.9	88.9	88.9	89.1	89.1	91.5
3150	73.4	73.4	86.2	86.2	87.6	87.6	89.8
4000	70.8	70.8	83.4	83.4	86.0	86.0	87.9
5000	68.2	68.2	80.3	80.3	84.3	84.3	85.9
6300	65.4	65.4	77.1	77.1	82.5	82.5	83.7
8000	62.5	62.5	73.8	73.8	80.6	80.6	81.3
10000	59.4	59.4	70.2	70.2	78.5	78.5	78.8
12500	56.1	56.1	66.5	66.5	76.2	76.2	76.0
16000	52.7	52.7	62.6	62.6	73.8	73.8	73.2
20000	49.0	49.0	58.5	58.5	71.1	71.1	70.1
25000	45.1	45.1	54.0	54.0	68.2	68.2	66.5

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


SR-71 APPROACH
30 % RPM
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-517-105-090677-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
40
50
60
70
80
90
100
110
120
NOISE LEVEL IN DB

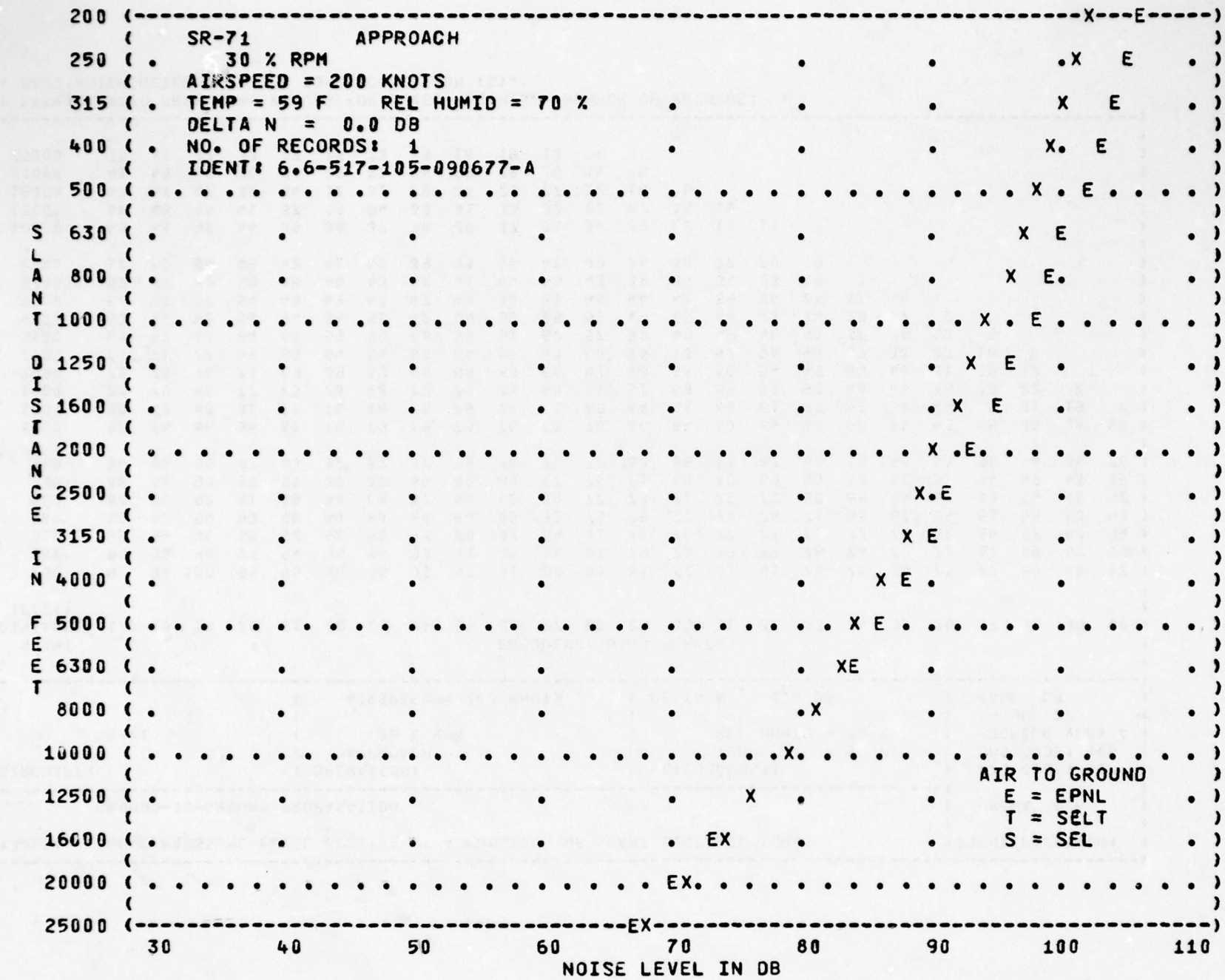

SR-71 APPROACH
30 % RPM
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-517-105-090677-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
AIR TO GROUND
E = EPNL
T = SELT
S = SEL
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB

TABLE: SOUND PRESSURE LEVEL SPECTRA AS A FUNCTION OF SLANT DISTANCE (DB)*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT: SR-71

OPERATION:
APPROACH
30 % RPM
AIRSPEED = 200 KNOTS

METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 517
OPS CODE: 105
PROFILE VER: A
09 JUN 77
PAGE L3

SLANT DISTANCE (FEET)	FREQUENCY BAND NUMBER																						
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
200	96	98	100	99	96	96	96	95	93	91	88	85	81	80	81	81	78	75	75	73	70	68	65	63
250	94	96	98	97	94	94	94	93	91	89	86	83	79	78	79	79	76	73	72	70	67	65	62	59
315	92	94	96	95	92	92	92	91	88	87	84	81	77	76	77	77	73	70	70	67	65	62	58	54
400	90	92	94	93	90	90	90	89	86	85	82	79	75	73	75	74	71	68	67	64	61	58	53	48
500	88	90	92	91	88	88	88	87	84	82	80	77	73	71	72	72	68	65	64	61	58	54	48	42
630	86	88	90	89	85	85	85	85	82	80	77	75	71	69	70	69	66	62	61	57	54	49	43	35
800	84	86	88	87	83	82	82	82	80	78	75	72	68	66	68	67	63	59	58	53	50	44	36	26
1000	82	84	86	84	80	79	79	79	78	76	73	70	66	64	65	64	60	56	54	49	45	38	28	15
1250	80	82	83	81	77	76	76	76	75	74	71	68	64	61	62	61	57	52	50	44	39	31	19	2
1600	78	79	80	77	73	73	72	72	71	71	68	65	61	59	59	58	53	48	45	38	33	22	7	
2000	75	75	76	73	69	69	69	68	68	69	66	63	58	56	56	54	49	44	40	31	25	12		
2500	71	71	72	69	65	64	64	63	64	65	63	60	55	53	53	50	45	39	33	23	16	0		
3150	67	67	67	64	60	59	59	58	59	61	60	57	52	49	49	46	40	32	26	13	5			
4000	63	62	62	58	54	54	53	52	54	56	55	53	49	45	44	41	34	25	17	2				
5000	58	57	57	54	49	49	48	47	48	50	51	48	44	41	39	35	27	17	6					
6300	52	52	52	49	45	44	43	42	41	44	46	43	39	36	34	28	19	7						
8000	50	50	50	46	42	41	40	39	38	41	42	39	34	30	27	20	9							
10000	48	48	47	44	39	38	37	36	35	37	38	34	29	23	19	11								
12500	46	45	45	41	37	35	34	33	31	33	33	28	22	15	10									
16000	43	43	42	39	34	32	31	29	27	28	27	22	14	6										
20000	41	40	40	36	31	29	27	24	22	22	20	14	5											
25000	38	38	37	33	27	25	23	19	16	15	13	4												

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
< BAND WHICH DETERMINES THE TONE CORRECTION (C).

TABLE: SINGLE EVENT NOISE AS A FUNCTION OF SLANT DISTANCE*

GROUND-TO-GROUND PROPAGATION

IDENTIFICATION:
OMEGA 6.6

AIRCRAFT:
SR-71

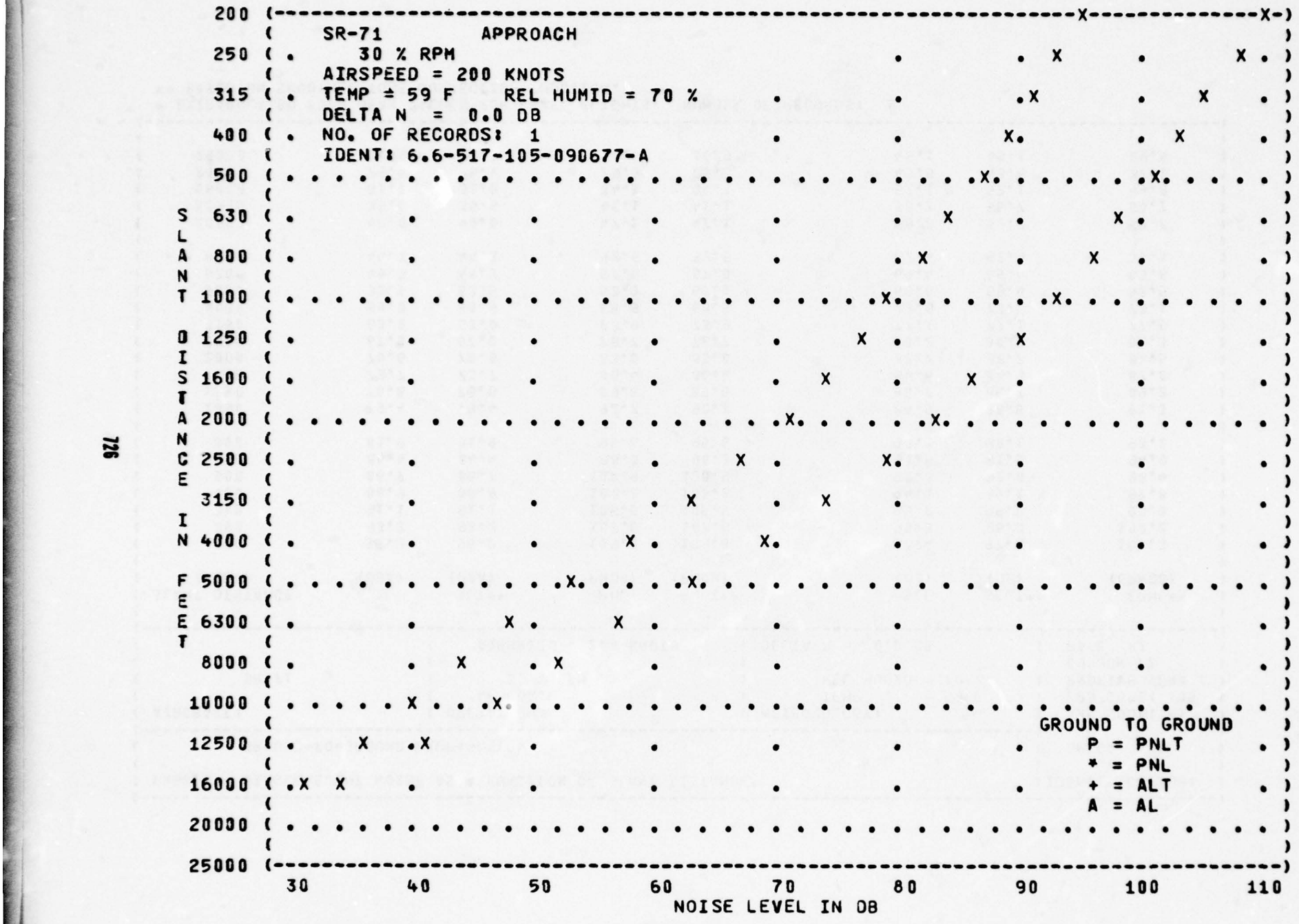
OPERATION:
APPROACH
30 % RPM
AIRSPEED = 200 KNOTS

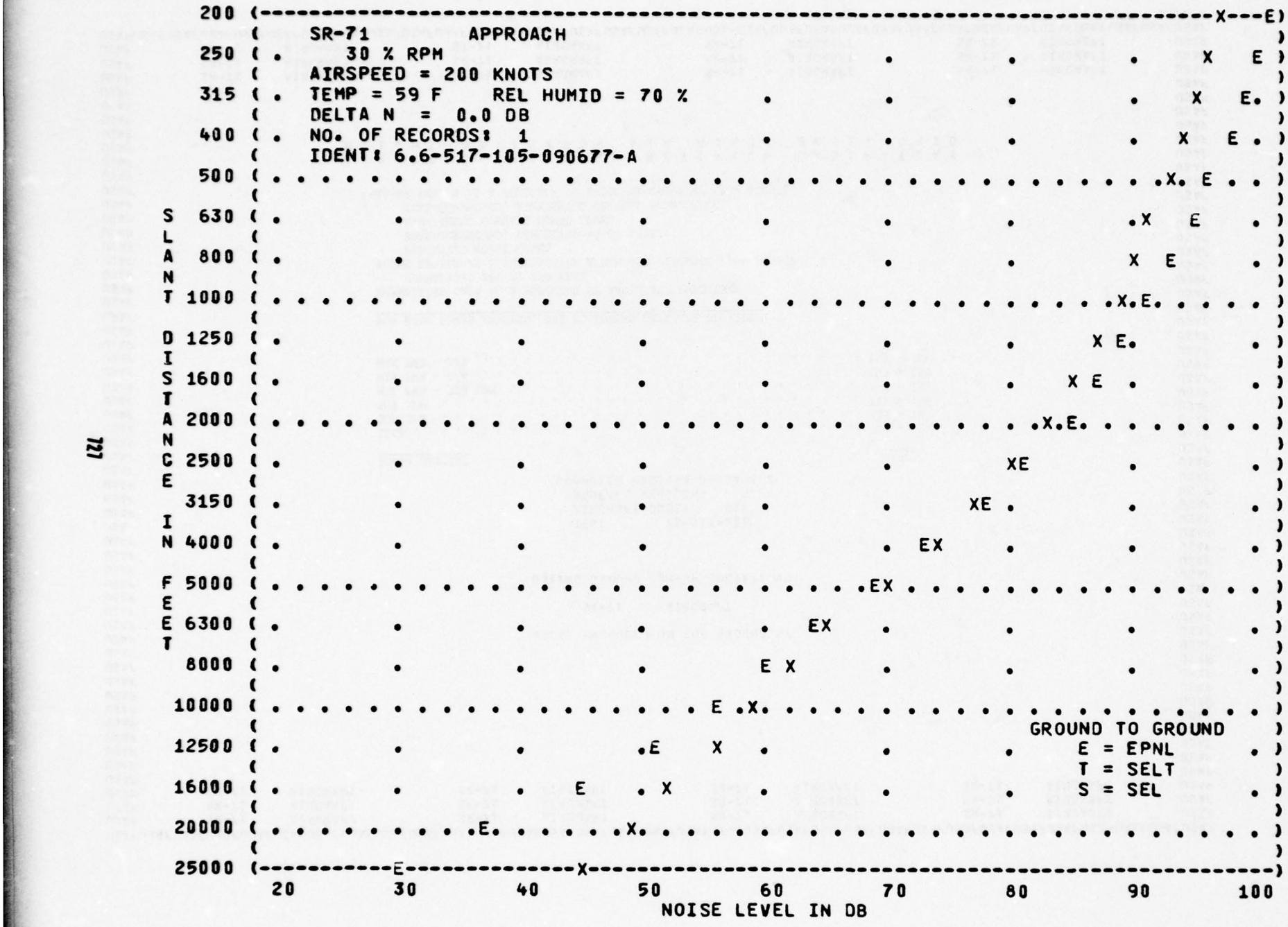
METEOROLOGY:
TEMP = 59 F
REL HUMID = 70 %
DELTA N = 0.0 DB

A/C CODE: 517
OPS CODE: 105
PROFILE VER: A
09 JUN 77
PAGE M3

SLANT DISTANCE (FEET)	AL (DBA)	ALT** (DBA)	PNL (PNDB)	PNLT** (PNDB)	SEL (DB)	SELT** (DB)	EPNL** (EPNDB)
200	95.2	95.2	109.8	109.8	97.4	97.4	101.3
250	93.2	93.2	107.6	107.6	96.3	96.3	100.2
315	91.1	91.1	105.5	105.5	95.2	95.2	99.0
400	88.9	88.9	103.2	103.2	94.1	94.1	97.8
500	86.7	86.7	100.9	100.9	92.8	92.8	96.4
630	84.4	84.4	98.3	98.3	91.5	91.5	94.9
800	81.9	81.9	95.6	95.6	90.1	90.1	93.2
1000	79.4	79.4	92.7	92.7	88.5	88.5	91.3
1250	76.6	76.6	89.6	89.6	86.7	86.7	89.2
1600	73.7	73.7	86.4	86.4	84.8	84.8	87.0
2000	70.6	70.6	83.0	83.0	82.7	82.7	84.5
2500	67.0	67.0	78.7	78.7	80.2	80.2	81.3
3150	63.0	63.0	73.9	73.9	77.1	77.1	77.5
4000	58.5	58.5	68.5	68.5	73.6	73.6	73.1
5000	53.5	53.5	63.0	63.0	69.6	69.6	68.5
6300	48.3	48.3	57.0	57.0	65.4	65.4	63.6
8000	44.3	44.3	52.5	52.5	62.4	62.4	60.1
10000	40.0	40.0	47.1	47.1	59.2	59.2	55.7
12500	35.6	35.6	41.1	41.1	55.7	55.7	50.7
16000	31.0	31.0	34.3	34.3	52.1	52.1	44.9
20000	26.4	26.4	25.6	25.6	48.5	48.5	37.2
25000	21.9	21.9	16.9	16.9	45.1	45.1	29.5

* EXTRAPOLATED FROM MEAN VALUES FOR LEVEL FLIGHTS. NUMBER OF RECORDS: 1
** BASED ON SMOOTHED TONE CORRECTION FUNCTION.


SR-71 APPROACH
30 % RPM
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-517-105-090677-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
P = PNLT
* = PNL
+ = ALT
A = AL
30
40
50
60
70
80
90
100
110
NOISE LEVEL IN DB


SR-71 APPROACH
30 % RPM
AIRSPEED = 200 KNOTS
TEMP = 59 F REL HUMID = 70 %
DELTA N = 0.0 DB
NO. OF RECORDS: 1
IDENT: 6.6-517-105-090677-A
SLANT DISTANCE IN FEET
200
250
315
400
500
630
800
1000
1250
1600
2000
2500
3150
4000
5000
6300
8000
10000
12500
16000
20000
25000
GROUND TO GROUND
E = EPNL
T = SELT
S = SEL
20
30
40
50
60
70
80
90
100
NOISE LEVEL IN DB

USAF SR-71 AIRCRAFT

NOISE PRODUCED ON THE GROUND BY

SR-71 AIRCRAFT

DURING GROUND RUN-UP OPERATIONS

TEST 76-517-001
AIRCRAFT CODE: 517
PROFILE VERSION: A
COMPUTER PROGRAM OMEGA 8.2

POWER SETTING	PAGE
IDLE	729 - 734
30% RPM	735 - 740
50% RPM	741 - 746
MIL PWR - 70% RPM	747 - 752
MIN PWR - A/B	753 - 758
MAX PWR - A/B	759 - 764

FOR EACH POWER SETTING, THE FOLLOWING DATA ARE PROVIDED:

NORMALIZED DATA AS A FUNCTION OF ANGLE AND FREQUENCY
- NORMALIZED SPL AT 250 FEET

NOISE LEVELS AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE
- PERCEIVED NOISE LEVEL
- TONE-CORRECTED, PERCEIVED NOISE LEVEL
- A-WEIGHTED OVERALL SOUND LEVEL
- TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL

NOISE LEVELS AS A FUNCTION OF ANGLE AT 250 FEET FROM SOURCE

AEROSPACE MEDICAL RESEARCH LABORATORY
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

(DATA PROVIDED BY NASA FLIGHT RESEARCH CENTER)

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 04

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
IDLE, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

AIRCRAFT CODE 517
OPERATION CODE 02013
PROFILE VERSION A
26 APR 76
PAGE C1

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	78	71	70	66	62	73	72	73	73	74	76	75	75	75	74	75	73	63	53
63	77	70	69	67	65	74	73	73	75	74	77	75	76	76	75	76	75	65	55
80	76	71	69	67	65	72	72	71	72	73	73	72	73	73	73	73	73	63	53
100	76	72	69	67	65	71	70	69	70	71	73	73	74	74	73	73	72	62	52
125	75	71	71	70	69	72	71	71	69	76	75	75	77	76	74	75	74	64	54
160	72	68	68	68	69	72	71	69	67	69	74	75	77	76	75	71	73	63	53
200	73	70	68	68	67	68	69	70	68	68	74	74	75	76	76	71	71	61	51
250	73	73	71	70	68	68	68	67	67	68	70	73	76	76	75	70	68	58	48
315	72	72	70	70	69	68	68	67	66	67	69	72	75	73	72	70	68	58	48
400	74	75	72	73	73	69	69	70	70	68	69	73	77	76	74	72	70	60	50
500	75	74	74	74	73	70	70	69	70	69	69	72	74	74	74	73	74	64	54
630	76	74	74	73	72	70	70	69	70	68	68	70	71	72	73	73	72	62	52
800	79	76	75	73	72	71	70	68	69	67	68	69	69	70	71	70	70	60	50
1000	80	77	75	74	73	71	69	68	70	67	67	69	70	70	70	70	69	59	49
1250	81	77	75	75	75	72	70	69	70	67	67	69	71	70	70	71	70	60	50
1600	81	78	76	76	76	72	70	69	71	67	67	69	72	72	71	73	71	61	51
2000	90	90	84	83	81	79	75	71	71	69	70	71	72	73	74	74	73	63	53
2500	85	82	78	77	76	73	71	68	68	67	68	69	71	71	71	72	72	62	52
3150	86	81	79	78	78	74	70	67	68	66	66	68	70	70	70	70	70	60	50
4000	86	85	83	82	81	75	71	67	68	65	65	68	69	70	70	69	67	57	47
5000	87	86	80	80	79	74	70	67	67	67	68	72	71	70	69	68	65	55	45
6300	86	83	81	80	78	75	71	67	66	67	69	73	72	70	69	66	65	55	45
8000	84	80	79	77	75	71	66	62	61	60	59	62	62	62	61	61	59	49	39
10000	78	75	71	70	68	65	61	58	56	54	56	58	57	57	57	58	54	44	34
OVERALL	97	94	91	90	89	86	84	83	83	83	85	85	87	87	86	86	85	75	65

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
IDLE, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 04
AIRCRAFT CODE 517
OPERATION CODE 02013
PROFILE VERSION A
26 APR 76
PAGE D1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	112.5	110.4	107.0	106.1	105.0	101.6	98.6	96.1	96.1	95.0	96.1	98.7	99.5	99.1	99.0	98.8	97.8	87.6	77.3
250	110.1	108.2	104.5	103.7	102.7	99.3	96.4	93.9	93.6	92.7	93.7	96.3	97.1	96.8	96.7	96.5	95.6	85.3	75.0
315	107.6	105.8	102.2	101.3	100.2	97.0	94.1	91.6	91.5	90.3	91.3	93.8	94.7	94.5	94.5	94.2	93.3	83.0	72.6
400	105.1	103.4	99.6	98.7	97.7	94.6	91.7	89.2	89.1	87.9	88.9	91.2	92.3	92.1	92.1	91.9	90.9	80.6	70.2
500	102.6	100.9	96.9	96.0	95.0	92.1	89.2	86.7	86.5	85.4	86.4	88.5	89.8	89.7	89.6	89.4	88.4	78.1	67.7
630	100.0	98.3	94.2	93.2	92.1	89.4	86.6	84.1	84.0	82.8	83.8	85.7	87.2	87.1	87.0	86.9	85.8	75.5	65.0
800	97.2	95.5	91.4	90.2	89.1	86.7	83.8	81.4	81.3	80.1	81.0	82.9	84.4	84.4	84.3	84.2	83.1	72.7	62.2
1000	94.2	92.6	88.4	87.3	86.1	83.8	80.9	78.5	78.4	77.2	78.2	80.0	81.5	81.5	81.5	81.3	80.2	69.8	59.1
1250	91.1	89.5	85.3	84.2	83.0	80.7	77.8	75.4	75.4	74.1	75.1	76.9	78.4	78.5	78.5	78.3	77.1	66.6	55.8
1600	87.7	86.2	81.9	80.8	79.6	77.3	74.5	72.1	72.1	70.8	71.7	73.6	75.1	75.2	75.2	75.1	73.9	63.3	52.2
2000	84.0	82.6	78.3	77.1	76.0	73.7	70.9	68.5	68.5	67.1	68.1	69.9	71.7	71.6	71.6	71.5	70.4	59.7	48.0
2500	80.1	78.6	74.3	73.2	72.0	69.7	66.9	64.6	64.5	63.1	64.0	65.9	67.7	67.7	67.7	67.6	66.4	55.6	42.9
3150	75.6	74.3	69.9	68.8	67.6	65.3	62.5	60.1	60.1	58.5	59.5	61.3	63.1	63.2	63.2	63.2	62.0	51.1	37.5
4000	70.7	69.4	65.0	63.9	62.7	60.3	57.5	55.1	55.1	53.3	54.2	56.2	58.1	58.1	58.3	58.3	57.0	44.9	31.5
5000	65.3	64.0	59.6	58.4	57.3	54.6	51.7	49.1	49.0	46.9	48.0	50.3	52.9	52.8	52.7	52.7	51.4	38.9	22.1
6300	59.1	57.9	53.4	52.2	51.0	48.2	44.9	42.1	43.2	40.6	41.0	43.8	46.9	46.7	46.7	46.3	45.3	32.4	6.9
8000	52.4	51.0	46.5	45.1	43.8	40.3	37.7	36.6	37.7	34.9	35.8	38.6	41.7	41.5	41.5	41.0	40.0	25.0	
10000	44.2	42.8	38.1	37.1	36.1	32.7	31.4	30.3	31.2	27.9	28.5	32.8	35.9	35.7	35.5	34.9	34.2	14.5	
12500	35.7	32.8	31.3	30.3	29.0	23.3	22.3	21.3	22.4	18.3	20.0	24.7	29.1	28.5	28.4	27.6	27.3	4.0	
16000	25.9	22.6	21.8	19.8	18.2	12.1	11.2	8.3	10.8	7.5	8.2	15.2	20.2	19.9	19.4	18.4	17.3		
20000	13.3	8.5	8.2	6.9	7.4	.8	.1					5.6	10.4	8.2	7.6	6.8	6.9		
25000	.7												.5						

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
IDLE, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 04
AIRCRAFT CODE 517
OPERATION CODE 02013
PROFILE VERSION A
26 APR 76
PAGE E1

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	114.8	113.8	109.3	108.1	106.7	103.7	100.2	96.1	96.1	96.0	97.0	99.8	100.4	99.8	99.0	98.8	97.8	87.6	77.3
250	112.5	111.5	107.0	105.7	104.3	101.4	97.9	93.9	93.8	93.7	94.6	97.3	98.0	97.5	96.7	96.5	95.6	85.3	75.0
315	110.0	109.2	104.5	103.3	101.9	99.1	95.0	91.6	91.5	91.3	92.2	94.8	95.7	95.3	94.5	94.2	93.3	83.0	72.5
400	107.5	106.8	102.0	100.7	99.3	96.7	93.2	89.2	89.1	88.9	89.8	92.2	93.3	92.9	92.1	91.9	90.9	80.6	70.2
500	105.0	104.3	99.3	98.0	96.6	94.2	90.7	86.7	86.5	86.4	87.3	89.5	90.7	90.4	89.6	89.4	88.4	78.1	67.7
630	102.3	101.7	96.5	95.1	93.8	91.5	88.1	84.1	84.0	83.8	84.7	86.7	88.1	87.8	87.0	86.9	85.8	75.5	65.0
800	99.6	98.9	93.7	92.2	90.7	88.8	85.4	81.4	81.3	81.1	81.9	83.9	85.3	85.1	84.3	84.2	83.1	72.7	62.2
1000	96.6	96.0	90.8	89.3	87.8	85.9	82.5	78.5	78.4	78.2	79.1	81.0	82.4	82.3	81.5	81.3	80.2	69.8	59.1
1250	93.5	92.9	87.6	86.1	84.6	82.8	79.4	75.4	75.4	75.1	76.0	77.9	79.3	79.2	78.5	78.3	77.1	66.6	55.8
1600	90.1	89.5	84.2	82.8	81.2	79.4	76.1	72.1	72.1	71.8	72.6	74.6	76.0	75.9	75.2	75.1	73.9	63.3	52.2
2000	86.4	85.9	80.6	79.1	77.6	75.8	72.4	68.5	68.5	68.1	69.0	71.0	72.6	72.4	71.6	71.5	70.4	59.7	48.0
2500	82.4	82.0	76.5	75.1	73.6	71.8	68.5	64.6	64.5	64.1	64.9	66.9	68.6	68.4	67.7	67.6	66.4	55.6	42.9
3150	78.0	77.6	72.3	70.8	69.3	67.4	64.1	60.1	60.1	59.5	60.4	62.4	64.0	63.9	63.2	63.2	62.0	51.1	37.5
4000	72.6	72.1	66.9	65.5	64.1	61.9	58.7	55.1	55.1	54.1	54.9	57.1	58.9	58.7	58.3	58.3	57.0	44.9	31.5
5000	66.7	66.0	61.0	59.6	58.3	55.9	52.6	49.1	49.6	47.5	48.5	51.0	53.4	53.2	52.7	52.7	51.4	38.9	22.1
6300	60.0	59.2	54.3	53.0	51.7	49.0	45.5	42.1	43.2	41.0	41.4	44.3	47.3	47.0	46.7	46.3	45.3	32.4	6.9
8000	52.9	51.7	47.0	45.5	44.1	40.8	38.0	36.6	37.7	35.1	36.0	38.8	41.8	41.7	41.3	41.0	40.0	25.0	
10000	44.2	42.8	38.1	37.1	36.1	32.7	31.4	30.3	31.2	27.9	28.5	32.8	35.9	35.7	35.5	34.9	34.2	14.5	
12500	35.7	32.8	31.3	30.3	29.0	23.3	22.3	21.3	22.4	18.3	20.0	24.7	29.1	28.5	28.4	27.0	27.3	4.0	
16000	25.9	22.6	21.8	19.8	18.2	12.1	11.2	9.3	10.8	7.5	8.2	15.2	20.2	19.3	19.4	18.4	17.3		
20000	13.3	8.5	8.2	6.9	7.4	.8	.1					5.6	10.4	8.2	7.6	6.8	6.9		
25000	.7												.5						

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 04
AIRCRAFT CODE 517
OPERATION CODE 02013
PROFILE VERSION A
26 APR 76
PAGE F1

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
IDLE, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	99.2	97.1	93.2	92.2	91.1	87.6	84.6	82.2	82.6	80.8	81.6	83.9	85.3	85.0	84.9	85.0	83.8	73.8	63.8
250	96.8	94.8	90.9	89.9	88.8	85.3	82.3	80.0	80.4	78.6	79.3	81.7	83.1	82.8	82.7	82.8	81.7	71.7	61.7
315	94.4	92.5	88.5	87.5	86.4	83.0	80.0	77.7	78.2	76.4	77.1	79.4	80.8	80.6	80.5	80.6	79.5	69.5	59.5
400	92.0	90.0	86.0	85.0	84.0	80.6	77.7	75.4	75.9	74.1	74.7	77.0	78.5	78.3	78.2	78.3	77.2	67.2	57.2
500	89.4	87.5	83.4	82.5	81.4	78.1	75.3	73.1	73.6	71.7	72.3	74.6	76.2	76.0	75.9	76.0	74.9	64.9	54.9
630	86.7	84.9	80.8	79.8	78.8	75.5	72.8	70.7	71.2	69.3	69.9	72.1	73.7	73.6	73.5	73.6	72.5	62.5	52.5
800	83.9	82.2	78.0	77.0	76.0	72.9	70.2	68.2	68.8	66.7	67.3	69.5	71.2	71.1	71.0	71.2	70.1	60.1	50.1
1000	81.6	79.3	75.2	74.2	73.2	70.1	67.5	65.6	66.2	64.2	64.7	66.8	68.7	68.6	68.5	68.6	67.6	57.6	47.6
1250	78.0	76.3	72.2	71.2	70.2	67.2	64.6	62.9	63.6	61.5	62.0	64.1	66.0	65.9	65.9	66.0	64.9	54.9	44.9
1600	74.8	73.2	69.0	68.0	67.1	64.2	61.9	60.2	60.9	58.7	59.2	61.3	63.2	63.2	63.1	63.2	62.2	52.2	42.2
2000	71.4	69.9	65.8	64.8	63.8	61.1	58.9	57.3	58.0	55.8	56.3	58.4	60.4	60.3	60.3	60.3	59.3	49.3	39.3
2500	67.8	66.3	62.3	61.3	60.4	57.7	55.7	54.2	55.0	52.7	53.2	55.2	57.2	57.2	57.2	57.2	56.3	46.3	36.3
3150	64.0	62.4	58.6	57.7	56.7	54.1	52.2	50.8	51.6	49.4	49.8	51.8	53.6	53.7	53.8	53.9	52.9	42.9	32.9
4000	59.8	58.2	54.0	53.7	52.7	50.2	48.4	47.1	48.0	45.7	46.1	48.0	49.8	49.9	50.0	50.1	49.2	39.2	29.2
5000	55.2	53.4	50.2	49.3	48.4	45.8	44.2	43.0	43.9	41.6	41.9	43.8	45.5	45.6	45.8	45.9	45.0	35.0	25.0
6300	50.3	48.2	45.4	44.5	43.6	41.1	39.6	38.5	39.5	37.1	37.4	39.3	40.9	41.1	41.2	41.4	40.5	30.5	20.5
8000	45.1	42.9	40.7	39.8	38.9	36.5	35.2	34.2	35.2	33.0	33.3	35.2	36.9	37.0	37.2	37.2	36.4	26.4	16.4
10000	39.7	37.3	35.7	34.8	33.9	31.6	30.6	29.7	30.6	28.6	28.9	30.8	32.6	32.7	32.9	32.7	32.1	22.1	12.1
12500	34.6	31.5	30.4	29.5	28.6	26.5	25.6	24.8	25.6	23.8	24.2	26.1	28.0	28.2	28.3	27.9	27.4	17.4	7.4
16000	27.9	25.7	24.8	23.9	23.0	20.9	20.2	19.5	20.3	18.6	19.1	21.1	23.2	23.3	23.3	22.8	22.3	12.3	2.3
20000	21.4	19.5	18.7	17.9	17.0	15.0	14.4	13.8	14.4	13.1	13.7	15.7	18.0	17.9	17.9	17.2	16.7	6.7	
25000	14.5	12.8	12.1	11.4	10.5	8.7	8.2	7.7	8.1	7.2	8.0	10.0	12.4	12.2	12.0	11.1	10.6	.6	

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
IDLE, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 04
AIRCRAFT CODE 517
OPERATION CODE 02013
PROFILE VERSION A
26 APR 76
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DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	101.6	100.5	95.6	94.2	92.8	89.7	86.1	82.2	82.6	81.6	82.5	85.0	86.2	85.8	84.9	85.0	83.8	73.8	63.8
250	99.2	98.2	93.2	91.9	90.5	87.4	83.9	80.0	80.4	79.6	80.2	82.7	84.0	83.6	82.7	82.8	81.7	71.7	61.7
315	96.8	95.8	90.8	89.5	88.1	85.1	81.6	77.7	78.2	77.4	78.0	80.4	81.7	81.4	80.5	80.6	79.5	69.5	59.5
400	94.3	93.4	88.3	87.0	85.6	82.7	79.2	75.4	75.9	75.1	75.6	78.0	79.4	79.1	78.2	78.3	77.2	67.2	57.2
500	91.8	90.9	85.8	84.4	83.1	80.2	76.8	73.1	73.6	72.7	73.2	75.6	77.1	76.8	75.9	76.0	74.9	64.9	54.9
630	89.1	88.3	83.1	81.8	80.4	77.6	74.3	70.7	71.2	70.2	70.8	73.1	74.6	74.3	73.5	73.6	72.5	62.5	52.5
800	86.3	85.5	80.4	79.0	77.7	75.0	71.8	68.2	68.8	67.7	68.3	70.5	72.2	71.9	71.0	71.2	70.1	60.1	50.1
1000	83.4	82.7	77.5	76.1	74.8	72.2	69.1	65.6	66.2	65.2	65.6	67.9	69.6	69.3	68.5	68.6	67.6	57.6	47.6
1250	80.4	79.7	74.5	73.2	71.8	69.3	66.3	62.9	63.6	62.5	62.9	65.1	66.9	66.7	65.9	66.0	64.9	54.9	44.9
1600	77.1	76.6	71.4	70.0	68.7	66.3	63.4	60.2	60.9	59.7	60.1	62.3	64.1	63.9	63.1	63.2	62.2	52.2	42.2
2000	73.8	73.2	68.1	66.8	65.5	63.2	60.4	57.3	58.0	56.8	57.2	59.4	61.3	61.1	60.3	60.3	59.3	49.3	39.3
2500	70.2	69.7	64.7	63.3	62.0	59.8	57.2	54.2	55.0	53.7	54.1	56.3	58.1	57.9	57.2	57.2	56.3	46.3	36.3
3150	66.3	65.8	61.0	59.6	58.4	56.2	53.8	50.8	51.6	50.4	50.7	52.8	54.6	54.4	53.8	53.9	52.9	42.9	32.9
4000	61.7	60.9	56.5	55.3	54.1	51.9	49.7	47.1	48.0	46.5	46.8	48.8	50.5	50.5	50.0	50.1	49.2	39.2	29.2
5000	56.7	55.5	51.6	50.5	49.3	47.1	45.1	43.0	43.9	42.2	42.4	44.4	46.0	46.1	45.8	45.9	45.0	35.0	25.0
6300	51.2	49.6	46.4	45.3	44.3	42.0	40.3	38.5	39.5	37.5	37.8	39.7	41.3	41.4	41.2	41.4	40.5	30.5	20.5
8000	45.6	43.5	41.1	40.2	39.2	36.9	35.5	34.2	35.2	33.2	33.5	35.4	37.0	37.2	37.2	37.2	36.4	26.4	16.4
10000	39.7	37.3	35.7	34.8	33.9	31.6	30.6	29.7	30.6	28.6	28.9	30.8	32.6	32.7	32.9	32.7	32.1	22.1	12.1
12500	34.0	31.5	30.4	29.5	28.6	26.5	25.6	24.8	25.6	23.8	24.2	26.1	28.0	28.2	28.3	27.9	27.4	17.4	7.4
16000	27.9	25.7	24.8	23.9	23.0	20.9	20.2	19.5	20.3	18.6	19.1	21.1	23.2	23.3	23.3	22.8	22.3	12.3	2.3
20000	21.4	19.5	18.7	17.9	17.0	15.0	14.4	13.8	14.4	13.1	13.7	15.7	18.0	17.9	17.9	17.2	16.7	6.7	
25000	14.5	12.8	12.1	11.4	10.5	8.7	8.2	7.7	8.1	7.2	8.0	10.0	12.4	12.2	12.0	11.1	10.6	.6	

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
IDLE, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 04
AIRCRAFT CODE 517
OPERATION CODE 02013
PROFILE VERSION A
26 APR 76
PAGE J1

P=PNLT A=AL T=ALT

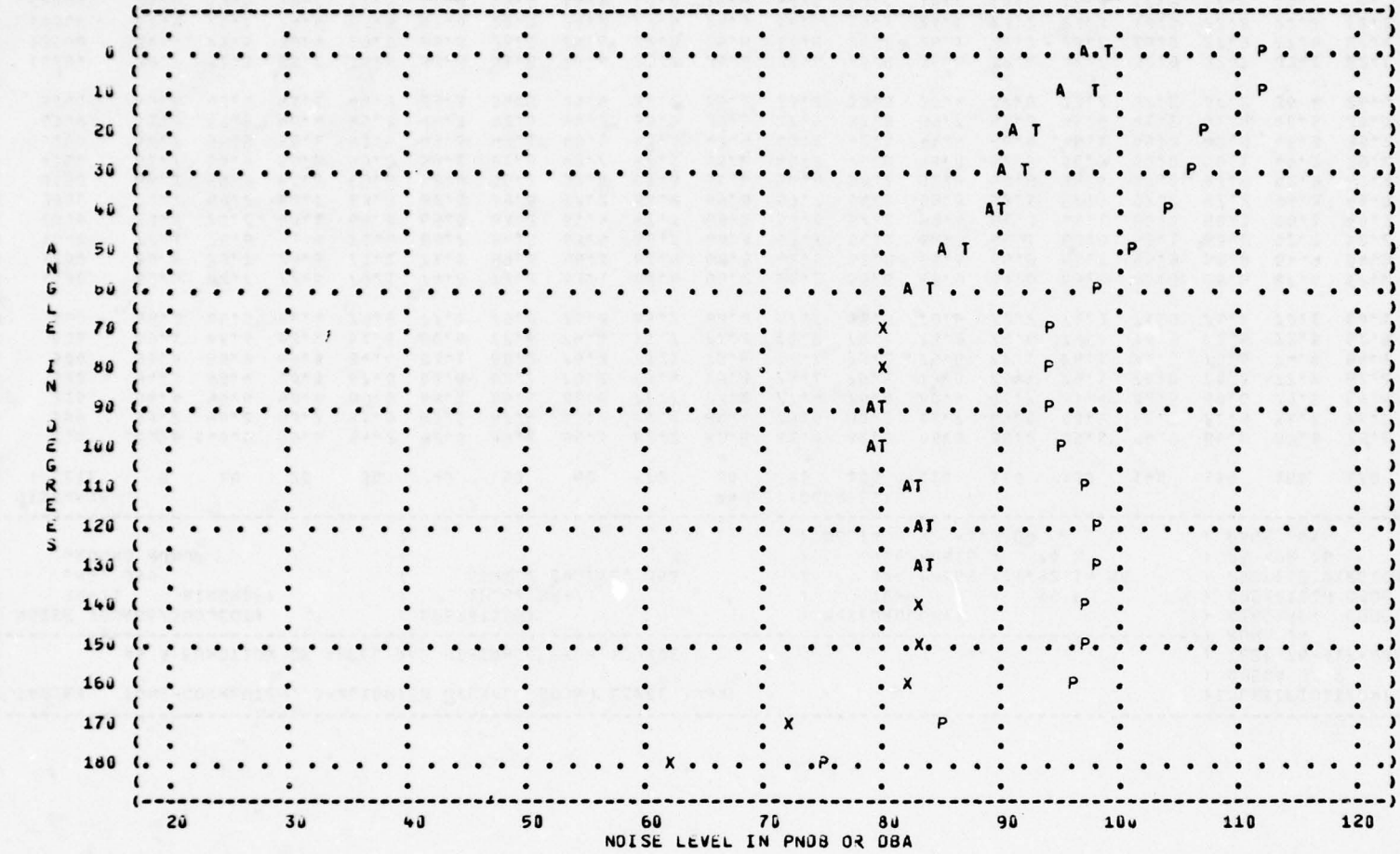


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

(DATA PROVIDED BY NASA FLIGHT RESEARCH CENTER)

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
30% RPM, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 05
AIRCRAFT CODE 517
OPERATION CODE 02043
PROFILE VERSION A
26 APR 76
PAGE C2

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	86	86	87	87	87	87	88	89	90	91	91	92	95	102	107	109	106	96	86
63	88	88	88	88	88	89	90	91	92	93	93	94	99	104	110	112	108	98	88
80	89	89	89	89	90	90	91	92	93	94	94	96	99	106	111	113	108	98	88
100	93	93	92	92	93	93	93	94	95	95	96	98	101	106	111	115	111	101	91
125	92	91	92	92	92	93	93	93	93	95	96	98	102	105	108	113	112	102	92
160	94	92	92	93	93	93	93	92	93	95	96	98	102	105	107	110	111	101	91
200	94	93	92	92	92	92	92	92	92	94	96	98	101	104	107	106	109	99	89
250	92	91	92	92	92	92	92	91	91	94	95	98	102	104	107	105	107	97	87
315	89	91	91	91	91	90	91	91	90	93	95	98	101	103	104	105	102	92	82
400	88	90	90	90	90	90	90	90	89	92	94	97	100	101	103	102	98	88	78
500	88	89	90	90	89	89	88	88	88	91	92	94	98	99	100	98	92	82	72
630	88	88	90	89	89	88	88	88	88	90	91	92	95	96	97	93	88	78	68
800	88	88	89	88	88	88	88	88	87	88	90	91	93	93	93	89	86	76	66
1000	88	87	87	87	87	87	86	86	87	88	91	93	94	93	92	88	85	75	65
1250	85	86	87	86	85	85	86	86	87	89	92	94	95	94	92	88	85	75	65
1600	86	86	86	86	85	85	85	86	86	90	92	94	94	93	92	87	83	73	63
2000	86	86	85	84	84	84	84	85	84	88	91	92	92	91	89	85	81	71	61
2500	88	86	84	83	83	83	83	84	84	87	89	90	91	89	87	84	80	70	60
3150	89	85	84	83	83	83	82	82	83	86	87	89	90	88	86	83	78	68	58
4000	86	83	84	82	81	81	80	81	81	84	85	87	88	86	84	81	76	66	56
5000	82	82	79	79	78	78	78	78	79	82	83	85	85	83	82	79	74	64	54
6300	80	78	77	76	76	76	76	75	76	80	81	82	82	80	79	77	74	64	54
8000	78	74	75	74	73	73	72	72	73	76	77	78	79	78	77	77	72	62	52
10000	73	71	69	69	69	69	68	68	69	71	72	74	75	74	74	79	73	63	53
OVERALL	103	102	102	102	102	102	102	103	103	105	106	108	112	115	118	121	119	109	99

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
30% RPM, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 05
AIRCRAFT CODE 517
OPERATION CODE 02043
PROFILE VERSION A
26 APR 76
PAGE D2

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	115.6	113.9	113.5	113.0	112.6	112.5	112.4	112.7	113.0	115.5	117.4	119.0	120.6	121.7	123.3	124.0	121.7	111.7	101.6
250	113.3	111.7	111.3	110.7	110.4	110.3	110.2	110.5	110.8	113.3	115.2	116.8	118.4	119.6	121.2	121.9	119.6	109.6	99.5
315	111.0	109.4	109.0	108.5	108.2	108.0	108.0	108.3	108.5	111.1	113.0	114.6	116.2	117.4	119.1	119.8	117.5	107.5	97.4
400	108.7	107.1	106.7	106.1	105.8	105.7	105.7	106.0	106.2	108.8	110.7	112.3	114.0	115.2	116.9	117.7	115.3	105.3	95.1
500	106.2	104.7	104.2	103.7	103.4	103.2	103.3	103.6	103.8	106.4	108.3	109.9	111.7	113.0	114.7	115.5	113.0	103.0	92.7
630	103.6	102.1	101.6	101.1	100.8	100.7	100.7	101.1	101.3	103.8	105.8	107.4	109.3	110.5	112.2	113.2	110.5	100.5	90.2
800	100.8	99.4	98.9	98.4	98.1	98.0	98.1	98.5	98.6	101.2	103.1	104.8	106.9	108.1	109.7	110.7	107.9	97.8	87.5
1000	97.8	96.6	96.0	95.6	95.3	95.2	95.3	95.7	95.8	98.4	100.3	102.1	104.3	105.5	107.0	108.0	105.2	95.0	84.6
1250	94.6	93.5	93.0	92.5	92.3	92.2	92.3	92.7	92.8	95.5	97.4	99.2	101.5	102.7	104.2	105.0	102.2	92.0	81.3
1600	91.1	90.2	89.9	89.4	89.2	89.2	89.3	89.5	89.5	92.3	94.3	96.1	98.6	99.9	101.3	101.8	98.9	88.6	77.7
2000	87.4	86.6	86.7	86.2	86.1	86.0	86.1	86.4	86.1	88.9	90.9	92.8	95.5	96.7	98.2	98.2	95.3	84.7	73.7
2500	83.3	82.7	83.1	82.6	82.3	82.1	82.2	82.5	82.3	85.1	87.1	88.9	91.6	92.8	94.3	94.1	91.1	80.2	69.4
3150	78.8	78.6	79.2	78.6	78.3	78.0	78.0	78.3	78.2	81.0	83.0	84.8	87.2	88.4	89.9	89.4	86.2	75.5	64.7
4000	74.2	74.1	74.8	74.1	73.8	73.5	73.6	73.8	73.6	76.4	78.4	80.2	82.4	83.5	84.8	84.3	81.0	70.3	59.3
5000	69.2	69.2	70.0	69.3	68.9	68.8	68.7	68.9	68.8	71.4	73.5	75.3	77.6	78.7	79.9	79.0	75.5	64.8	53.4
6300	64.6	64.6	64.8	64.1	63.8	63.5	63.5	63.7	63.5	65.1	68.1	70.0	72.5	73.7	74.9	73.9	70.1	59.2	48.7
8000	59.6	59.8	60.6	59.9	59.6	59.3	59.3	59.5	59.3	61.8	63.6	65.6	68.6	69.9	71.3	70.4	66.7	55.5	42.4
10000	54.7	55.2	55.9	55.5	55.1	54.9	54.7	54.8	54.8	57.3	59.1	61.2	64.4	65.8	67.4	66.7	63.0	51.3	37.5
12500	49.5	50.2	51.0	50.5	50.2	49.9	49.7	49.7	49.8	52.3	54.2	56.4	59.7	61.5	63.2	62.6	59.1	46.7	32.5
16000	43.6	44.4	45.3	44.9	44.3	44.0	43.9	43.7	43.8	46.6	48.7	51.0	54.6	56.5	58.6	58.3	55.1	41.8	25.6
20000	38.7	37.3	38.6	38.1	37.7	37.3	37.1	37.0	37.1	39.9	42.1	44.8	48.9	51.1	53.4	54.0	50.8	36.0	16.9
25000	28.6	29.3	30.1	29.4	28.9	29.0	28.7	28.3	28.3	32.3	34.3	37.8	42.2	44.8	47.5	49.3	45.4	29.1	8.3

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
30% RPM, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 05
AIRCRAFT CODE 517
OPERATION CODE 02043
PROFILE VERSION A
26 APR 76
PAGE E2

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	115.6	113.9	113.5	113.0	112.6	112.5	112.4	112.7	113.0	115.5	117.4	119.0	120.6	121.7	123.3	124.0	121.7	111.7	101.6
250	113.3	111.7	111.3	110.7	110.4	110.3	110.2	110.5	110.8	113.3	115.2	116.8	118.4	119.5	121.2	121.9	119.6	109.6	99.5
315	111.0	109.4	109.0	108.5	108.2	108.0	108.0	108.3	108.5	111.1	113.0	114.6	116.2	117.4	119.1	119.8	117.5	107.5	97.4
400	108.7	107.1	106.7	106.1	105.8	105.7	105.7	106.0	106.2	108.8	110.7	112.3	114.0	115.2	116.9	117.7	115.3	105.3	95.1
500	106.2	104.7	104.2	103.7	103.4	103.2	103.3	103.6	103.8	106.4	108.3	109.9	111.7	113.0	114.7	115.5	113.0	103.0	92.7
630	103.6	102.1	101.6	101.1	100.8	100.7	100.7	101.1	101.3	103.8	105.8	107.4	109.3	110.5	112.2	113.2	110.5	100.5	90.2
800	100.8	99.4	98.9	98.4	98.1	98.0	98.1	98.5	98.6	101.2	103.1	104.8	106.9	108.1	109.7	110.7	107.9	97.8	87.5
1000	97.8	96.6	96.0	95.6	95.3	95.2	95.3	95.7	95.8	98.4	100.3	102.1	104.3	105.5	107.0	108.0	105.2	95.0	84.6
1250	94.6	93.5	93.0	92.5	92.3	92.2	92.3	92.7	92.8	95.5	97.4	99.2	101.5	102.7	104.2	105.0	102.2	92.0	81.3
1600	91.1	90.2	89.9	89.4	89.2	89.2	89.3	89.5	89.5	92.3	94.3	96.1	98.6	99.9	101.3	101.8	98.9	88.5	77.7
2000	87.4	86.6	86.7	86.2	86.1	86.0	86.1	86.4	86.1	88.9	90.9	92.8	95.5	96.7	98.2	98.2	95.3	84.7	73.7
2500	83.3	82.7	83.1	82.6	82.3	82.1	82.2	82.5	82.3	85.1	87.1	88.9	91.6	92.8	94.3	94.1	91.1	80.2	69.4
3150	78.8	78.6	79.2	78.6	78.3	78.0	78.0	78.3	78.2	81.0	83.0	84.8	87.2	88.4	89.9	89.4	86.2	75.5	64.7
4000	74.2	74.1	74.8	74.1	73.8	73.5	73.6	73.8	73.6	76.4	78.4	80.2	82.4	83.5	84.8	84.3	81.0	70.3	59.3
5000	69.2	69.2	70.0	69.3	68.9	68.6	68.7	68.9	68.8	71.4	73.5	75.3	77.6	78.7	79.9	79.0	75.5	64.8	53.4
6300	64.0	64.0	64.8	64.1	63.8	63.5	63.5	63.7	63.5	66.1	68.1	70.0	72.5	73.7	74.9	73.9	70.1	59.2	48.7
8000	59.6	59.8	60.6	59.9	59.6	59.3	59.3	59.5	59.3	61.8	63.6	65.6	68.6	69.9	71.3	70.4	66.7	55.5	42.4
10000	54.7	55.2	55.9	55.5	55.1	54.9	54.7	54.8	54.8	57.3	59.1	61.2	64.4	65.8	67.4	66.7	63.0	51.3	37.5
12500	49.5	50.2	51.0	50.5	50.2	49.9	49.7	49.7	49.8	52.3	54.2	56.4	59.7	61.5	63.2	62.6	59.1	46.7	32.5
16000	43.6	44.4	45.5	44.9	44.3	44.0	43.9	43.7	43.8	46.6	48.7	51.0	54.6	56.5	58.6	58.3	55.1	41.8	25.6
20000	36.7	37.3	38.6	38.1	37.7	37.3	37.1	37.0	37.1	39.9	42.1	44.8	48.9	51.1	53.4	54.0	50.8	36.0	16.9
25000	28.6	29.3	30.1	29.4	28.9	29.0	28.7	28.3	28.3	32.3	34.3	37.8	42.2	44.8	47.5	49.3	45.4	29.1	8.3

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
80% RPM, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 05
AIRCRAFT CODE 517
OPERATION CODE 02043
PROFILE VERSION A
26 APR 76
PAGE F2

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	100.4	99.8	99.9	99.3	99.0	98.7	98.8	99.1	98.9	101.6	103.6	105.4	107.2	107.7	108.7	108.4	107.2	97.2	87.2
250	98.3	97.6	97.8	97.2	96.9	96.6	96.7	96.9	96.8	99.5	101.5	103.3	105.1	105.6	106.7	106.4	105.2	95.2	85.2
315	96.1	95.5	95.7	95.1	94.7	94.5	94.5	94.8	94.7	97.3	99.4	101.2	103.0	103.5	104.6	104.4	103.1	93.1	83.1
400	93.8	93.3	93.5	92.9	92.6	92.3	92.4	92.6	92.5	95.1	97.2	99.0	100.9	101.4	102.5	102.3	101.0	91.0	81.0
500	91.4	91.0	91.2	90.7	90.3	90.1	90.1	90.4	90.2	92.9	94.9	96.8	98.7	99.2	100.4	100.1	98.8	88.8	78.8
630	89.0	88.7	89.0	88.4	88.0	87.8	87.9	88.1	87.9	90.5	92.6	94.4	96.4	97.0	98.1	97.8	96.4	86.4	76.4
800	86.5	86.3	86.5	86.0	85.7	85.5	85.5	85.8	85.6	88.2	90.2	92.1	94.0	94.5	95.7	95.5	93.9	83.9	73.9
1000	83.9	83.8	84.2	83.6	83.3	83.0	83.1	83.3	83.1	85.7	87.8	89.6	91.6	92.2	93.3	93.0	91.2	81.2	71.2
1250	81.2	81.2	81.6	81.0	80.7	80.5	80.5	80.8	80.6	83.1	85.2	87.0	89.1	89.5	90.6	90.2	88.3	78.3	68.3
1500	78.4	78.5	79.0	78.4	78.1	77.8	77.9	78.1	77.9	80.4	82.5	84.3	86.4	86.9	87.9	87.3	85.1	75.1	65.1
2000	75.5	75.7	76.3	75.7	75.4	75.1	75.1	75.4	75.1	77.6	79.6	81.5	83.6	84.1	85.0	84.2	81.8	71.8	61.8
2500	72.3	72.6	73.3	72.7	72.4	72.1	72.1	72.3	72.1	74.5	76.5	78.4	80.5	80.9	81.7	80.7	77.9	67.9	57.9
3150	68.9	69.3	70.0	69.4	69.1	68.8	68.8	69.0	68.7	71.1	73.1	74.9	77.0	77.4	78.0	76.7	73.7	63.7	53.7
4000	65.2	65.6	66.4	65.8	65.5	65.2	65.1	65.3	65.1	67.4	69.4	71.2	73.2	73.4	74.0	72.4	69.0	59.0	49.0
5000	61.1	61.5	62.4	61.7	61.4	61.1	61.1	61.2	61.0	63.2	65.2	67.0	68.9	69.1	69.5	67.7	64.2	54.2	44.2
6300	56.6	57.1	58.0	57.4	57.0	56.7	56.7	56.8	56.6	58.8	60.7	62.5	64.5	64.6	65.0	63.1	59.5	49.5	39.5
8000	52.6	53.1	54.0	53.4	53.1	52.8	52.7	52.8	52.6	54.7	56.5	58.3	60.5	60.9	61.5	59.8	56.3	46.3	36.3
10000	48.2	48.8	49.8	49.2	48.8	48.5	48.4	48.4	48.2	50.3	52.0	53.8	56.3	56.9	57.7	56.3	53.1	43.1	33.1
12500	43.5	44.1	45.1	44.5	44.2	43.8	43.7	43.8	43.5	45.6	47.2	49.1	51.8	52.6	53.6	52.7	49.7	39.7	29.7
16000	38.5	39.0	40.0	39.5	39.1	38.8	38.7	38.7	38.4	40.6	42.1	44.0	47.0	48.1	49.4	48.9	46.2	36.2	26.2
20000	33.8	33.6	34.5	34.0	33.7	33.4	33.3	33.3	33.0	35.2	36.7	38.7	41.9	43.3	44.9	45.0	42.7	32.7	22.7
25000	27.2	27.7	28.5	28.1	27.8	27.6	27.5	27.5	27.3	29.6	31.1	33.1	36.4	38.2	40.3	41.1	39.0	29.0	19.0

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 05
AIRCRAFT CODE 517
OPERATION CODE 02043
PROFILE VERSION A
26 APR 76
PAGE G2

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
30% RPM, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	100.4	99.8	99.9	99.3	99.0	98.7	98.8	99.1	98.9	101.6	103.6	105.4	107.2	107.7	108.7	108.4	107.2	97.2	87.2
250	98.3	97.8	97.8	97.2	96.9	96.6	96.7	96.9	96.8	99.5	101.5	103.3	105.1	105.6	106.7	106.4	105.2	95.2	85.2
315	96.1	95.5	95.7	95.1	94.7	94.5	94.5	94.8	94.7	97.3	99.4	101.2	103.0	103.5	104.6	104.4	103.1	93.1	83.1
400	93.8	93.3	93.5	92.9	92.6	92.3	92.4	92.6	92.5	95.1	97.2	99.0	100.9	101.4	102.5	102.3	101.0	91.0	81.0
500	91.4	91.0	91.2	90.7	90.3	90.1	90.1	90.4	90.2	92.9	94.9	96.8	98.7	99.2	100.4	100.1	98.8	88.8	78.8
630	89.0	88.7	89.0	88.4	88.0	87.8	87.9	88.1	87.9	90.5	92.6	94.4	96.4	97.0	98.1	97.8	96.4	86.4	76.4
800	86.5	86.3	86.6	86.0	85.7	85.5	85.5	85.8	85.6	88.2	90.2	92.1	94.0	94.5	95.7	95.5	93.9	83.9	73.9
1000	83.9	83.8	84.2	83.6	83.3	83.0	83.1	83.3	83.1	85.7	87.8	89.6	91.6	92.2	93.3	93.0	91.2	81.2	71.2
1250	81.2	81.2	81.6	81.0	80.7	80.5	80.5	80.8	80.6	83.1	85.2	87.0	89.1	89.6	90.6	90.2	88.3	78.3	68.3
1500	78.4	78.5	79.0	78.4	78.1	77.8	77.9	78.1	77.9	80.4	82.5	84.3	86.4	86.9	87.9	87.3	85.1	75.1	65.1
2000	75.5	75.7	76.3	75.7	75.4	75.1	75.1	75.4	75.1	77.6	79.6	81.5	83.6	84.1	85.0	84.2	81.8	71.8	61.8
2500	72.3	72.6	73.3	72.7	72.4	72.1	72.1	72.3	72.1	74.5	76.5	78.4	80.5	80.9	81.7	80.7	77.9	67.9	57.9
3150	68.9	69.3	70.0	69.4	69.1	68.8	68.8	69.0	68.7	71.1	73.1	74.9	77.0	77.4	78.0	76.7	73.7	63.7	53.7
4000	65.2	65.6	66.4	65.8	65.5	65.2	65.1	65.3	65.1	67.4	69.4	71.2	73.2	73.4	74.0	72.4	69.0	59.0	49.0
5000	61.1	61.5	62.4	61.7	61.4	61.1	61.1	61.2	61.0	63.2	65.2	67.0	68.9	69.1	69.5	67.7	64.2	54.2	44.2
6300	56.6	57.1	58.0	57.4	57.0	56.7	56.7	56.8	56.6	58.8	60.7	62.5	64.5	64.6	65.0	63.1	59.5	49.5	39.5
8000	52.6	53.1	54.0	53.4	53.1	52.8	52.7	52.8	52.6	54.7	56.5	58.3	60.5	60.9	61.4	59.8	56.3	46.3	36.3
10000	48.2	48.8	49.8	49.2	48.8	48.5	48.4	48.4	48.2	50.3	52.0	53.8	56.3	56.9	57.7	56.3	53.1	43.1	33.1
12500	43.5	44.1	45.1	44.5	44.2	43.8	43.7	43.8	43.5	45.6	47.2	49.1	51.8	52.5	53.6	52.7	49.7	39.7	29.7
16000	38.5	39.0	40.0	39.5	39.1	38.8	38.7	38.7	38.4	40.6	42.1	44.0	47.0	48.1	49.4	48.9	46.2	36.2	26.2
20000	33.0	33.6	34.5	34.0	33.7	33.4	33.3	33.3	33.0	35.2	36.7	38.7	41.9	43.3	44.9	45.0	42.7	32.7	22.7
25000	27.2	27.7	28.5	28.1	27.8	27.6	27.5	27.5	27.3	29.6	31.1	33.1	36.4	38.2	40.3	41.1	39.0	29.0	19.0

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
30% RPM, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 05
AIRCRAFT CODE 517
OPERATION CODE 02043
PROFILE VERSION A
26 APR 76
PAGE J2

P=PNLT A=AL T=ALT

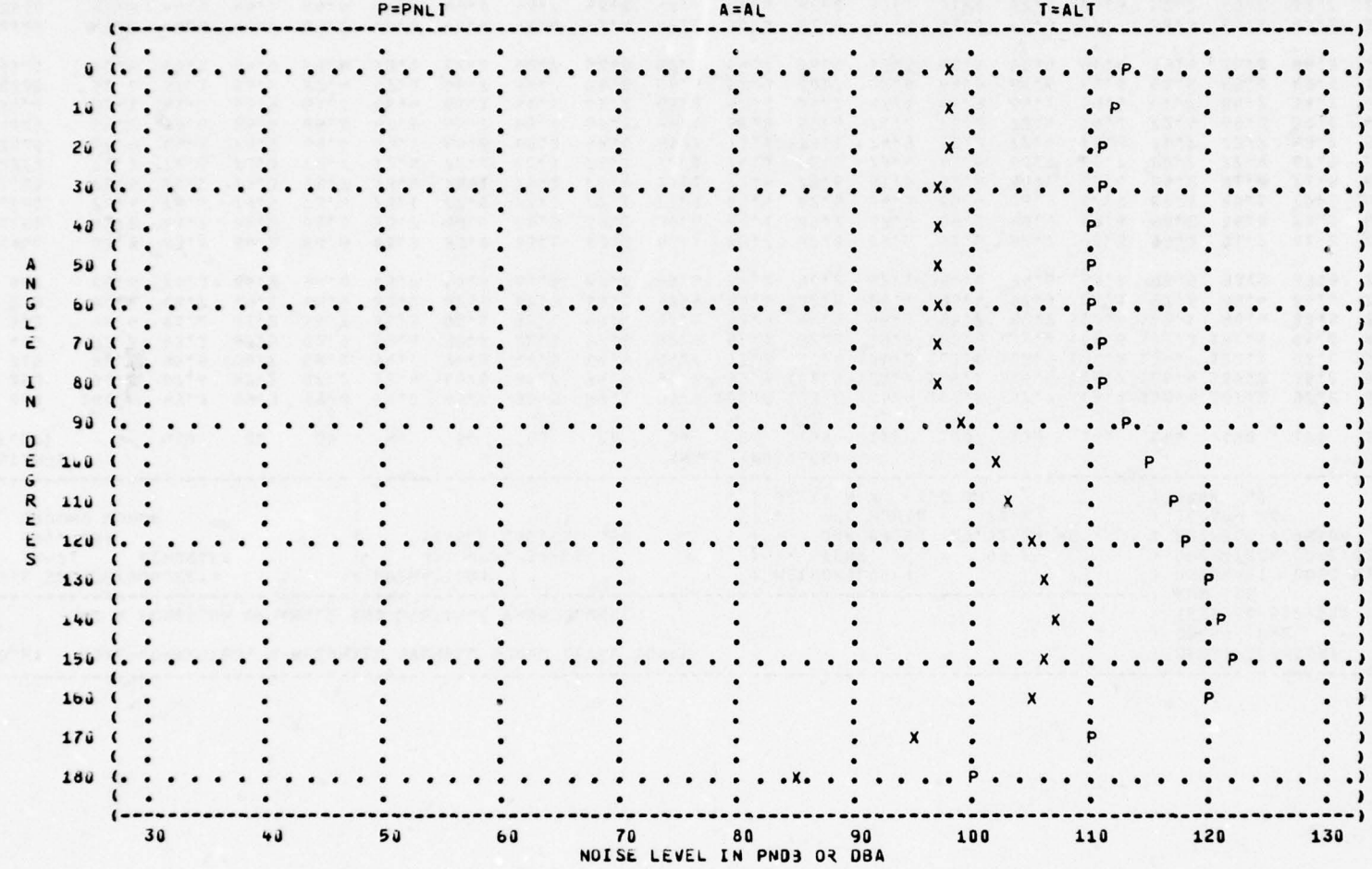


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET
(DATA PROVIDED BY NASA FLIGHT RESEARCH CENTER)

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 06
AIRCRAFT CODE 517
OPERATION CODE 02025
PROFILE VERSION A
26 APR 76
PAGE C3

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
50% RPM, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	88	88	89	85	81	90	91	92	93	95	95	97	101	107	112	113	110	100	90
63	91	91	91	88	85	92	93	95	95	96	97	99	104	110	115	116	112	102	92
80	92	92	92	89	87	93	94	95	96	97	98	101	106	112	117	118	113	103	93
100	94	94	94	92	90	94	95	96	97	99	100	102	107	112	117	119	114	104	94
125	96	95	96	94	93	96	96	97	97	99	101	104	110	112	115	119	115	105	95
160	98	96	96	95	94	95	95	96	97	99	101	104	111	113	115	117	115	105	95
200	97	96	95	95	95	96	96	97	97	99	102	105	110	113	117	114	115	105	95
250	95	95	96	96	95	96	96	96	95	99	101	105	111	114	117	115	113	103	93
315	93	96	96	96	96	95	96	97	95	99	101	105	109	112	115	114	110	100	90
400	94	95	95	96	96	95	96	96	95	98	101	104	109	111	114	112	106	96	86
500	94	96	96	96	96	95	95	95	95	97	100	102	105	109	111	108	101	91	81
630	94	95	97	97	96	94	95	96	95	98	98	101	105	107	109	105	97	87	77
800	95	95	97	96	96	94	95	96	95	96	98	101	103	105	106	102	97	87	77
1000	92	94	95	96	96	94	94	95	95	96	99	102	103	105	106	102	97	87	77
1250	90	92	93	94	95	92	93	95	94	97	100	103	103	105	106	101	97	87	77
1600	89	90	92	93	93	91	93	94	93	97	100	102	103	104	104	100	95	85	75
2000	88	90	90	91	92	90	92	94	92	96	99	100	102	102	102	98	92	82	72
2500	88	89	89	90	91	89	91	92	92	95	98	99	100	100	101	96	91	81	71
3150	89	87	89	90	90	89	90	91	91	94	96	98	99	99	100	95	89	79	69
4000	87	85	88	89	89	87	88	90	89	92	94	95	97	98	98	93	86	76	66
5000	83	84	84	86	87	84	85	87	87	90	92	94	95	96	97	90	85	75	65
6300	80	80	81	82	83	82	83	84	84	89	90	93	92	94	96	89	84	74	64
8000	78	77	79	80	80	78	79	81	81	85	86	90	90	93	95	87	81	71	61
10000	73	73	74	75	76	75	75	77	77	81	82	87	87	91	95	86	80	70	60
OVERALL	106	107	107	107	107	107	107	108	108	111	113	115	120	123	126	127	123	113	103

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
50% RPM, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 06
AIRCRAFT CODE 517
OPERATION CODE 02025
PROFILE VERSION A
26 APR 76
PAGE 03

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	117.6	117.6	118.6	118.9	119.1	118.0	118.9	120.2	120.6	123.0	125.0	127.2	129.5	131.7	134.2	131.9	128.3	118.3	108.3
250	115.4	115.4	116.4	116.6	116.9	115.8	116.7	118.0	118.3	120.8	122.8	125.0	127.3	129.5	132.1	129.8	126.2	116.2	106.2
315	113.1	113.1	114.1	114.4	114.6	113.6	114.5	115.8	115.9	118.5	120.6	122.7	125.1	127.4	129.9	127.7	124.1	114.1	104.1
400	110.8	110.8	111.8	112.0	112.3	111.2	112.2	113.4	113.3	116.2	118.3	120.4	122.8	125.2	127.7	125.5	121.9	111.9	101.9
500	108.3	108.4	109.3	109.6	109.9	108.8	109.8	111.0	110.8	113.8	115.9	118.0	120.4	122.9	125.4	123.3	119.6	109.6	99.5
630	105.7	105.9	106.8	107.0	107.4	106.3	107.3	108.5	108.3	111.2	113.4	115.5	118.0	120.4	122.9	121.0	117.1	107.1	96.9
800	103.0	103.3	104.1	104.4	104.7	103.7	104.6	105.9	105.6	108.6	110.7	112.9	115.6	117.9	120.3	118.6	114.5	104.5	94.3
1000	100.2	100.5	101.5	101.6	101.9	100.9	101.6	103.1	102.8	105.8	107.9	110.1	113.0	115.4	117.7	116.1	111.8	101.7	91.5
1250	97.1	97.6	98.7	98.6	98.9	97.9	98.8	100.1	99.7	102.7	104.9	107.1	110.2	112.7	115.0	113.2	108.8	98.7	88.3
1500	94.0	94.6	95.7	95.5	95.7	94.7	95.6	96.9	96.3	99.4	101.7	104.0	107.3	109.8	112.2	110.2	105.5	95.4	84.9
2000	90.8	91.5	92.5	92.3	92.4	91.5	92.3	93.5	92.7	96.0	98.3	100.7	104.2	106.7	109.1	107.1	102.1	91.8	81.3
2500	87.2	88.0	89.1	88.9	88.9	87.9	88.5	89.8	89.0	92.3	94.6	96.9	100.4	102.9	105.3	103.3	98.2	87.8	77.3
3150	83.4	84.0	85.5	85.2	85.0	83.9	84.7	85.7	85.0	88.1	90.5	92.8	96.1	98.6	101.1	99.1	93.8	83.3	72.8
4000	79.0	79.7	81.2	81.0	80.7	79.6	80.3	81.2	80.6	83.6	86.0	88.3	91.4	93.8	96.2	94.2	88.8	78.2	67.7
5000	74.4	75.0	76.5	76.2	76.1	74.9	75.6	76.5	75.8	78.7	81.1	83.4	86.6	89.0	91.4	89.0	83.5	73.0	62.2
6300	69.5	70.1	71.5	71.3	71.2	69.9	70.6	71.5	70.7	73.6	75.8	78.3	81.6	84.0	86.4	84.0	78.1	67.5	56.5
8000	65.2	65.9	67.4	67.1	66.8	65.6	66.3	67.1	66.4	69.3	71.2	74.0	77.7	80.2	82.7	80.4	74.5	63.9	52.5
10000	60.5	61.4	62.8	62.6	62.2	61.1	61.7	62.5	61.8	64.8	66.8	69.7	73.6	76.2	78.7	76.6	70.8	60.0	47.9
12500	55.5	56.7	57.9	57.5	57.4	56.3	56.8	57.5	56.8	59.8	62.0	65.0	69.1	71.9	74.5	72.5	66.9	55.7	42.9
16000	50.3	51.3	52.3	52.2	51.9	50.9	51.4	51.9	51.3	54.4	56.8	59.8	64.2	67.1	69.9	68.0	62.5	51.0	37.4
20000	44.2	45.3	46.3	46.1	45.9	44.8	45.1	45.5	45.0	48.5	50.9	54.2	58.8	62.0	64.9	63.4	57.9	45.4	31.0
25000	38.5	38.0	39.0	38.6	38.4	37.4	37.7	38.0	37.8	41.2	43.7	47.7	52.8	56.3	59.6	58.4	53.1	39.3	22.1

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
50% RPM, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 06
AIRCRAFT CODE 517
OPERATION CODE 02025
PROFILE VERSION A
26 APR 76
PAGE E3

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	117.6	117.6	118.6	118.9	119.1	118.0	118.9	120.2	122.3	123.0	125.0	127.2	129.5	131.7	134.2	131.9	128.3	118.3	108.3
250	115.4	115.4	116.4	116.6	116.9	115.8	116.7	118.0	120.0	120.8	122.8	125.0	127.3	129.5	132.1	129.8	126.2	116.2	106.2
315	113.1	113.1	114.1	114.4	114.6	113.6	114.5	115.8	117.6	118.5	120.6	122.7	125.1	127.4	129.9	127.7	124.1	114.1	104.1
400	110.8	110.8	111.8	112.0	112.3	111.2	112.2	113.4	115.0	116.2	118.3	120.4	122.8	125.2	127.7	125.5	121.9	111.9	101.9
500	108.3	108.4	109.3	109.6	109.9	108.8	109.8	111.0	112.5	113.8	115.9	118.0	120.4	122.9	125.4	123.3	119.6	109.6	99.5
630	105.7	105.9	106.8	107.0	107.4	106.3	107.3	108.5	110.0	111.2	113.4	115.5	118.0	120.4	122.9	121.0	117.1	107.1	96.9
800	103.0	103.3	104.1	104.4	104.7	103.7	104.6	105.9	107.3	108.6	110.7	112.9	115.6	117.9	120.3	118.6	114.5	104.5	94.3
1000	100.2	100.5	101.5	101.6	101.9	100.9	101.8	103.1	104.5	105.8	107.9	110.1	113.0	115.4	117.7	116.1	111.8	101.7	91.5
1250	97.1	97.6	98.7	98.6	98.9	97.9	98.8	100.1	101.4	102.7	104.9	107.1	110.2	112.7	115.0	113.2	108.8	98.7	88.3
1500	94.0	94.6	95.7	95.5	95.7	94.7	95.6	96.9	98.1	99.4	101.7	104.0	107.3	109.8	112.2	110.2	105.5	95.4	84.9
2000	90.8	91.5	92.5	92.3	92.4	91.5	92.3	93.5	94.5	96.0	98.3	100.7	104.2	106.7	109.1	107.1	102.1	91.8	81.3
2500	87.2	88.0	89.1	88.9	88.9	87.9	88.5	89.8	90.7	92.3	94.6	96.9	100.4	102.9	105.3	103.3	98.2	87.8	77.3
3150	83.4	84.0	85.5	85.2	85.0	83.9	84.7	85.7	86.7	86.1	90.5	92.8	96.1	98.6	101.1	99.1	93.8	83.3	72.8
4000	79.0	79.7	81.2	81.0	80.7	79.6	80.3	81.2	82.0	83.6	86.0	88.3	91.4	93.8	96.2	94.2	88.8	78.2	67.7
5000	74.4	75.0	76.5	76.2	76.1	74.9	75.6	76.5	76.8	78.7	81.1	83.4	86.6	89.0	91.4	89.0	83.5	73.0	62.2
6300	69.5	70.1	71.5	71.3	71.2	69.9	70.6	71.5	71.4	73.6	75.8	78.3	81.6	84.0	86.4	84.0	78.1	67.5	56.5
8000	65.2	65.9	67.4	67.1	66.8	65.6	66.3	67.1	66.8	69.3	71.2	74.0	77.7	80.2	82.7	80.4	74.5	63.9	52.5
10000	61.5	61.4	62.8	62.6	62.2	61.1	61.7	62.5	61.8	64.8	66.8	69.7	73.6	76.2	78.7	76.6	70.8	60.0	47.9
12500	55.5	56.7	57.9	57.5	57.4	56.3	56.8	57.5	56.8	59.8	62.0	65.0	69.1	71.9	74.5	72.5	66.9	55.7	42.9
16000	50.3	51.3	52.3	52.2	51.9	50.9	51.4	51.9	51.3	54.4	56.6	59.8	64.2	67.1	69.9	68.0	62.5	51.0	37.4
20000	44.2	45.3	46.3	46.1	45.9	44.8	45.1	45.5	45.0	48.5	50.9	54.2	58.8	62.0	64.9	63.4	57.9	45.4	31.0
25000	38.5	38.8	39.8	38.6	38.4	37.4	37.7	38.0	37.8	41.2	43.7	47.7	52.8	56.3	59.6	58.4	53.1	39.3	22.1

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 06
AIRCRAFT CODE 517
OPERATION CODE 02025
PROFILE VERSION A
26 APR 76
PAGE F3

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
50% RPM, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	104.1	104.9	106.1	106.4	106.7	104.9	105.7	106.8	106.5	109.2	111.5	113.8	116.2	118.1	120.1	117.6	113.7	103.7	93.7
250	102.0	102.8	104.0	104.3	104.5	102.8	103.6	104.7	104.3	107.0	109.3	111.7	114.1	116.0	118.0	115.6	111.7	101.7	91.7
315	99.8	100.6	101.9	102.1	102.4	100.6	101.5	102.6	102.1	104.9	107.2	109.5	112.0	113.9	115.9	113.5	109.6	99.6	89.6
400	97.6	98.5	99.7	99.9	100.2	98.5	99.3	100.4	99.8	102.6	105.0	107.3	109.8	111.7	113.8	111.4	107.5	97.5	87.5
500	95.4	96.3	97.5	97.7	98.0	96.2	97.0	98.1	97.5	100.4	102.7	105.1	107.6	109.5	111.6	109.3	105.3	95.3	85.3
630	93.1	94.0	95.2	95.4	95.7	94.0	94.7	95.8	95.1	98.0	100.4	102.8	105.3	107.3	109.4	107.0	102.9	92.9	82.9
800	90.8	91.7	92.9	93.1	93.4	91.6	92.4	93.4	92.7	95.6	98.0	100.4	103.0	104.9	107.0	104.7	100.5	90.5	80.5
1000	88.4	89.3	90.6	90.7	90.9	89.2	90.0	91.0	90.2	93.1	95.5	98.0	100.5	102.5	104.6	102.3	97.9	87.9	77.9
1250	85.9	86.9	88.1	88.3	88.4	86.7	87.5	88.4	87.6	90.6	92.9	95.4	98.0	100.0	102.1	99.6	95.1	85.1	75.1
1500	83.3	84.3	85.5	85.7	85.8	84.1	84.8	85.8	85.0	87.9	90.2	92.7	95.3	97.3	99.4	96.9	92.2	82.2	72.2
2000	80.6	81.6	82.9	83.0	83.1	81.4	82.1	83.0	82.2	85.1	87.4	89.9	92.6	94.6	96.7	94.0	89.0	79.0	69.0
2500	77.7	78.7	80.0	80.1	80.2	78.5	79.1	80.0	79.2	82.0	84.3	86.8	89.4	91.5	93.5	90.7	85.5	75.5	65.5
3150	74.5	75.5	76.9	76.9	77.0	75.2	75.9	76.7	76.0	78.7	80.9	83.4	86.0	88.0	90.0	87.0	81.6	71.6	61.6
4000	70.9	72.0	73.4	73.4	73.4	71.7	72.3	73.1	72.4	75.0	77.2	79.8	82.3	84.2	86.1	83.0	77.3	67.3	57.3
5000	67.0	68.0	69.5	69.5	69.5	67.7	68.3	69.1	68.4	70.9	73.1	75.7	78.1	80.0	81.9	78.5	72.8	62.8	52.8
6300	62.6	63.7	65.2	65.2	65.1	63.4	63.9	64.7	64.0	66.5	68.7	71.2	73.6	75.5	77.4	74.0	68.3	58.3	48.3
8000	58.7	59.8	61.2	61.1	61.0	59.3	59.9	60.6	59.9	62.3	64.4	67.0	69.7	71.7	73.7	70.4	64.7	54.7	44.7
10000	54.4	55.4	56.9	56.8	56.6	55.0	55.5	56.1	55.5	57.8	59.8	62.5	65.4	67.5	69.6	66.6	60.9	50.9	40.9
12500	49.7	50.7	52.2	52.0	51.7	50.2	50.7	51.3	50.6	53.0	54.9	57.6	60.9	63.1	65.4	62.6	57.0	47.0	37.0
16000	44.6	45.5	46.9	46.7	46.4	45.0	45.4	46.0	45.3	47.8	49.6	52.4	56.0	58.4	60.7	58.3	52.9	42.9	32.9
20000	38.9	39.9	41.2	40.9	40.6	39.3	39.8	40.2	39.6	42.2	44.0	46.9	50.8	53.3	55.8	53.8	48.8	38.8	28.8
25000	32.8	33.7	34.8	34.6	34.3	33.2	33.6	34.1	33.5	36.1	38.0	41.0	45.2	47.9	50.5	49.1	44.6	34.6	24.6

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
50% RPM, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 06
AIRCRAFT CODE 517
OPERATION CODE 02025
PROFILE VERSION A
26 APR 76
PAGE G3

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	104.1	104.9	106.1	106.4	106.7	104.9	105.7	106.8	108.2	109.2	111.5	113.8	116.2	118.1	120.1	117.6	113.7	103.7	93.7
250	102.8	102.8	104.0	104.3	104.5	102.8	103.6	104.7	106.0	107.0	109.3	111.7	114.1	116.0	118.0	115.6	111.7	101.7	91.7
315	99.8	100.0	101.9	102.1	102.4	100.6	101.5	102.6	103.8	104.9	107.2	109.5	112.0	113.9	115.9	113.5	109.6	99.6	89.6
400	97.6	98.5	99.7	99.9	100.2	98.5	99.3	100.4	101.5	102.6	105.0	107.3	109.8	111.7	113.8	111.4	107.5	97.5	87.5
500	95.4	96.3	97.5	97.7	98.0	96.2	97.0	98.1	99.2	100.4	102.7	105.1	107.6	109.5	111.6	109.3	105.3	95.3	85.3
630	93.1	94.0	95.2	95.4	95.7	94.0	94.7	95.8	96.9	98.0	100.4	102.8	105.3	107.3	109.4	107.0	102.9	92.9	82.9
800	90.8	91.7	92.9	93.1	93.4	91.6	92.4	93.4	94.4	95.6	98.0	100.4	103.0	104.9	107.0	104.7	100.5	90.5	80.5
1000	88.4	89.3	90.5	90.7	90.9	89.2	90.0	91.0	91.9	93.1	95.5	98.0	100.5	102.5	104.6	102.3	97.9	87.9	77.9
1250	85.9	86.9	88.1	88.3	88.4	86.7	87.5	88.4	89.3	90.6	92.9	95.4	98.0	100.0	102.1	99.6	95.1	85.1	75.1
1500	83.3	84.3	85.6	85.7	85.8	84.1	84.8	85.8	86.7	87.9	90.2	92.7	95.3	97.3	99.4	96.9	92.2	82.2	72.2
2000	80.6	81.6	82.9	83.0	83.1	81.4	82.1	83.0	83.9	85.1	87.4	89.9	92.6	94.5	96.7	94.0	89.0	79.0	69.0
2500	77.7	78.7	80.0	80.1	80.2	78.5	79.1	80.0	80.9	82.0	84.3	86.8	89.4	91.5	93.5	90.7	85.5	75.5	65.5
3150	74.5	75.5	76.9	76.9	77.0	75.2	75.9	76.7	77.7	78.7	80.9	83.4	86.0	88.0	90.0	87.0	81.6	71.6	61.6
4000	70.9	72.0	73.4	73.4	73.4	71.7	72.3	73.1	73.8	75.0	77.2	79.8	82.3	84.2	86.1	83.0	77.3	67.3	57.3
5000	67.6	68.6	69.9	69.5	69.5	67.7	68.3	69.1	69.4	70.9	73.1	75.7	78.1	80.0	81.9	78.5	72.8	62.8	52.8
6300	62.6	63.7	65.2	65.2	65.1	63.4	63.9	64.7	64.7	66.5	68.7	71.2	73.6	75.5	77.4	74.0	68.3	58.3	48.3
8000	58.7	59.8	61.2	61.1	61.0	59.3	59.9	60.6	60.3	62.3	64.4	67.0	69.7	71.7	73.7	70.4	64.7	54.7	44.7
10000	54.4	55.4	56.9	56.8	56.6	55.0	55.5	56.1	55.5	57.8	59.8	62.5	65.4	67.5	69.6	66.6	60.9	50.9	40.9
12500	49.7	50.7	52.2	52.0	51.7	50.2	50.7	51.3	50.0	53.0	54.9	57.6	60.9	63.1	65.4	62.6	57.0	47.0	37.0
16000	44.6	45.5	46.9	46.7	46.4	45.0	45.4	46.0	45.3	47.8	49.6	52.4	56.0	58.4	60.7	58.3	52.9	42.9	32.9
20000	38.9	39.9	41.2	40.9	40.6	39.3	39.8	40.2	39.6	42.2	44.0	46.9	50.8	53.3	55.8	53.8	48.8	38.8	28.8
25000	32.8	33.7	34.8	34.6	34.3	33.2	33.6	34.1	33.5	36.1	38.0	41.0	45.2	47.9	50.5	49.1	44.6	34.6	24.6

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
50% RPM, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 06
AIRCRAFT CODE 517
OPERATION CODE 02025
PROFILE VERSION A
26 APR 76
PAGE J3

P=PNLT A=AL T=ALT

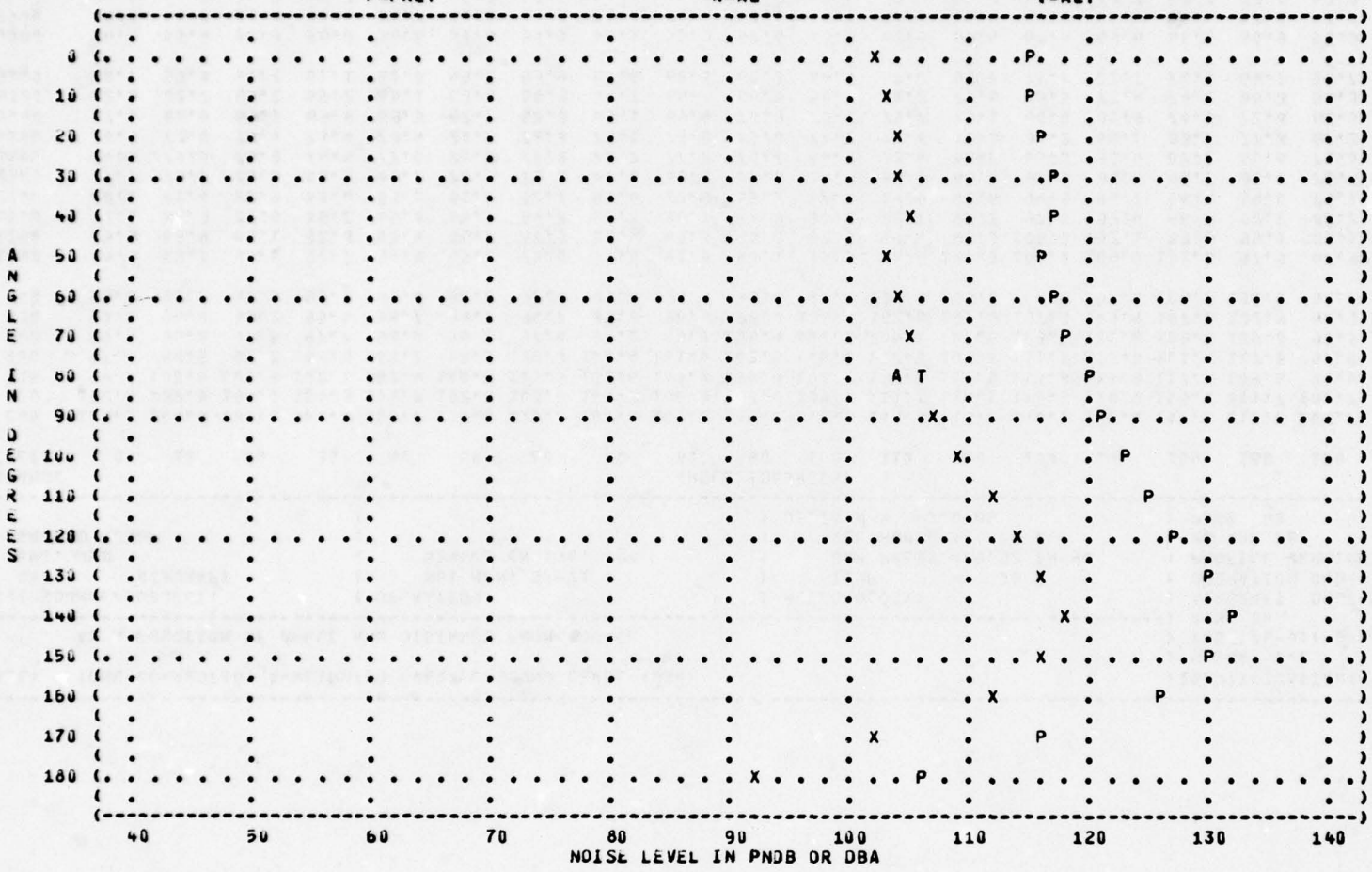


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

(DATA PROVIDED BY NASA FLIGHT RESEARCH CENTER)

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 07
AIRCRAFT CODE 517
OPERATION CODE 02004
PROFILE VERSION A
26 APR 76
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NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
MIL PWR, 70% RPM, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	89	90	91	87	83	92	93	94	95	96	97	99	104	109	114	115	111	101	91
63	92	93	93	90	87	94	95	96	97	99	99	102	107	112	117	118	113	103	93
80	94	95	94	91	89	95	96	97	97	100	101	104	109	114	119	120	114	104	94
100	95	96	96	93	91	96	97	98	98	100	102	105	111	115	119	120	115	105	95
125	96	97	96	96	94	98	98	98	98	101	103	107	114	116	117	120	115	105	95
160	99	97	97	97	96	98	98	96	98	102	104	107	115	116	116	118	115	105	95
200	98	97	97	97	97	98	98	98	98	102	104	108	114	116	118	116	115	105	95
250	96	97	98	98	98	98	98	98	97	102	105	109	116	117	118	115	113	103	93
315	95	98	98	98	98	98	98	99	97	102	105	109	114	115	117	115	111	101	91
400	101	102	101	101	100	98	99	99	97	102	104	108	113	114	115	113	108	98	88
500	102	105	105	104	104	100	100	99	98	101	103	106	111	112	113	110	104	94	84
630	102	103	106	106	105	103	102	101	99	102	103	104	109	110	111	107	101	91	81
800	100	101	104	104	104	103	103	102	100	101	102	104	107	109	110	105	100	90	80
1000	98	100	102	103	104	101	101	101	101	101	103	106	107	109	110	105	100	90	80
1250	95	98	100	101	102	99	100	100	100	102	105	107	108	109	109	104	99	89	79
1600	94	96	99	100	101	98	99	100	99	103	105	106	108	108	108	103	98	88	78
2000	92	95	95	98	99	97	98	99	99	102	104	104	107	106	106	102	97	87	77
2500	92	93	95	96	98	96	97	98	99	101	103	103	105	105	105	101	95	85	75
3150	91	91	94	96	97	95	96	97	98	100	101	103	104	104	104	100	93	83	73
4000	89	89	93	95	96	93	94	96	95	98	100	101	103	103	103	98	91	81	71
5000	85	87	90	91	93	90	91	93	94	96	98	99	101	102	102	95	90	80	70
6300	82	84	86	88	89	88	89	91	92	95	97	98	99	100	101	94	89	79	69
8000	80	80	84	85	86	85	86	88	89	92	94	96	98	99	101	93	85	75	65
10000	75	76	79	80	82	81	82	84	85	89	91	94	97	99	100	92	83	73	63
OVERALL	110	112	113	113	113	112	112	112	112	114	116	119	124	126	128	128	124	114	104

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
MIL PWR, 70% RPM, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 07
AIRCRAFT CODE 517
OPERATION CODE 02004
PROFILE VERSION A
26 APR 76
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DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	120.9	122.5	124.0	124.5	125.4	123.7	124.3	125.3	125.4	127.9	129.7	131.4	134.6	135.4	136.6	133.8	129.6	119.6	109.6
250	118.7	120.3	121.9	122.3	123.2	121.5	122.1	123.1	123.2	125.6	127.5	129.2	132.4	133.2	134.5	131.7	127.5	117.5	107.5
315	116.5	118.2	119.7	120.1	120.9	119.2	119.9	120.9	120.9	123.3	125.2	126.9	130.1	131.0	132.3	129.5	125.4	115.4	105.4
400	114.3	116.0	117.4	117.7	118.6	116.9	117.6	118.6	118.5	121.0	122.9	124.5	127.8	128.8	130.1	127.4	123.2	113.2	103.1
500	112.0	113.7	115.2	115.4	116.2	114.5	115.2	116.1	116.1	118.5	120.5	122.1	125.4	126.5	127.8	125.1	120.8	110.8	100.7
630	109.6	111.3	112.8	113.0	113.7	112.0	112.6	113.6	113.6	116.0	117.9	119.6	122.9	124.0	125.2	122.7	118.4	108.4	98.2
800	107.1	108.9	110.3	110.5	111.0	109.3	110.0	111.0	110.9	113.3	115.2	116.9	120.3	121.5	122.8	120.2	115.8	105.7	95.6
1000	104.6	106.4	107.7	108.0	108.3	106.6	107.2	108.1	108.0	110.5	112.4	114.1	117.6	118.9	120.1	117.7	113.2	103.1	92.8
1250	101.9	103.7	105.0	105.2	105.4	103.7	104.2	105.1	105.0	107.4	109.4	111.2	114.9	116.1	117.3	114.8	110.2	100.1	89.7
1500	99.0	100.9	102.2	102.3	102.5	100.7	101.0	101.9	101.7	104.1	106.2	108.0	111.9	113.2	114.4	111.9	107.0	96.9	86.5
2000	96.0	97.9	99.1	99.3	99.4	97.6	97.6	98.5	98.1	100.7	102.8	104.7	108.8	110.1	111.3	108.8	103.9	93.7	83.2
2500	92.5	94.6	95.9	96.0	96.1	94.2	94.2	94.7	94.2	97.0	99.1	101.0	105.0	106.2	107.5	105.0	100.1	89.8	79.2
3150	88.8	90.8	92.3	92.5	92.6	90.6	90.5	90.7	90.1	92.9	95.0	96.9	100.7	102.0	103.2	100.7	95.8	85.3	74.8
4000	84.7	86.5	88.3	88.4	88.5	86.4	86.4	86.6	85.6	88.4	90.5	92.3	96.2	97.4	98.6	95.9	90.8	80.3	69.8
5000	80.6	81.9	83.7	83.8	83.8	81.9	81.9	82.0	80.7	83.5	85.6	87.5	91.3	92.5	93.7	90.9	85.5	75.0	64.4
6300	75.1	77.0	78.8	78.9	79.0	77.1	77.0	77.1	75.8	78.2	80.3	82.2	86.3	87.5	88.7	85.9	80.4	69.9	59.1
8000	71.1	73.1	74.7	74.8	74.8	72.7	72.6	72.7	71.2	73.5	75.4	77.8	82.4	83.7	84.9	82.2	76.7	66.2	55.0
10000	66.8	68.9	70.3	70.3	70.2	68.2	67.9	67.9	66.3	68.9	70.9	73.5	78.3	79.5	80.9	78.3	72.8	62.1	50.5
12500	62.1	64.3	65.5	65.4	65.2	63.2	62.9	62.6	61.0	63.8	66.1	68.8	73.8	75.2	76.7	74.1	68.7	57.7	45.3
16000	56.9	59.3	60.2	59.9	59.7	57.6	57.3	56.9	55.3	58.4	60.9	63.7	69.0	70.6	72.1	69.6	64.3	52.9	39.7
20000	51.3	53.5	54.5	53.9	53.4	51.4	51.0	50.7	49.1	52.5	55.1	58.1	63.7	65.4	67.0	64.8	59.6	47.3	33.5
25000	44.6	46.3	47.8	47.4	46.6	43.7	43.4	42.9	41.5	45.8	48.6	51.8	57.9	59.7	61.5	59.7	54.4	41.2	24.5

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
MIL PWR, 70% RPM, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 07
AIRCRAFT CODE 517
OPERATION CODE 02004
PROFILE VERSION A
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DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	120.9	122.5	124.0	124.5	125.4	123.7	124.3	125.3	125.4	127.9	129.7	131.4	134.6	135.4	136.6	133.8	129.6	119.6	109.6
250	116.7	120.3	121.9	122.3	123.2	121.5	122.1	123.1	123.2	125.6	127.5	129.2	132.4	133.2	134.5	131.7	127.5	117.5	107.5
315	116.5	118.2	119.7	120.1	120.9	119.2	119.9	120.9	120.9	123.3	125.2	126.9	130.1	131.0	132.3	129.5	125.4	115.4	105.4
400	114.3	116.0	117.4	117.7	118.6	116.9	117.6	118.6	118.5	121.0	122.9	124.5	127.8	128.8	130.1	127.4	123.2	113.2	103.1
500	112.0	113.7	115.2	115.4	116.2	114.5	115.2	116.1	116.1	118.5	120.5	122.1	125.4	126.5	127.8	125.1	120.8	110.8	100.7
630	109.6	111.3	112.8	113.0	113.7	112.0	112.6	113.6	113.6	116.0	117.9	119.6	122.9	124.0	125.2	122.7	118.4	108.4	98.2
800	107.1	108.9	110.3	110.5	111.0	109.3	110.0	111.0	110.9	113.3	115.2	116.9	120.3	121.5	122.8	120.2	115.8	105.7	95.6
1000	104.6	106.4	107.7	108.0	108.3	106.6	107.2	108.1	108.0	110.5	112.4	114.1	117.6	118.9	120.1	117.7	113.2	103.1	92.8
1250	101.9	103.7	105.0	105.2	105.4	103.7	104.2	105.1	105.0	107.4	109.4	111.2	114.9	115.1	117.3	114.8	110.2	100.1	89.7
1600	99.0	100.9	102.2	102.3	102.5	100.7	101.0	101.9	101.7	104.1	106.2	108.0	111.5	113.2	114.4	111.9	107.0	96.9	86.5
2000	96.0	97.9	99.1	99.3	99.4	97.6	97.6	98.5	98.1	100.7	102.8	104.7	108.8	110.1	111.3	108.8	103.9	93.7	83.2
2500	92.6	94.6	95.9	96.0	96.1	94.2	94.2	94.7	94.2	97.0	99.1	101.0	105.0	106.2	107.5	105.0	100.1	89.8	79.2
3150	88.8	90.6	92.3	92.5	92.6	90.6	90.5	90.7	90.1	92.9	95.0	96.9	100.7	102.0	103.2	100.7	95.8	85.3	74.8
4000	84.7	86.5	88.3	88.4	88.5	86.4	86.4	86.6	85.6	88.4	90.5	92.3	96.2	97.4	98.6	95.9	90.8	80.3	69.8
5000	80.0	81.9	83.7	83.8	83.8	81.9	81.9	82.0	80.7	83.5	85.6	87.5	91.3	92.5	93.7	90.9	85.5	75.0	64.4
6300	75.1	77.0	78.8	78.9	79.0	77.1	77.0	77.1	75.8	78.2	80.3	82.2	86.3	87.5	88.7	85.9	80.4	69.9	59.1
8000	71.1	73.1	74.7	74.8	74.8	72.7	72.6	72.7	71.2	73.5	75.4	77.8	82.4	83.7	84.9	82.2	76.7	66.2	55.0
10000	66.8	68.9	70.3	70.3	70.2	68.2	67.9	67.9	66.3	68.9	70.9	73.5	78.3	79.5	80.9	78.3	72.8	62.1	50.5
12500	62.1	64.3	65.5	65.4	65.2	63.2	62.9	62.6	61.0	63.8	66.1	68.8	73.8	75.2	76.7	74.1	68.7	57.7	45.3
16000	56.9	59.3	60.2	59.9	59.7	57.6	57.3	56.9	55.3	58.4	60.9	63.7	69.0	70.5	72.1	69.6	64.3	52.9	39.7
20000	51.3	53.5	54.5	53.9	53.4	51.4	51.0	50.7	49.1	52.5	55.1	58.1	63.7	65.4	67.0	64.8	59.6	47.3	33.5
25000	44.6	46.9	47.8	47.4	46.6	43.7	43.4	42.9	41.5	45.8	48.6	51.8	57.9	59.7	61.5	59.7	54.4	41.2	24.5

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
MIL PWR, 70% RPM, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 07
AIRCRAFT CODE 517
OPERATION CODE 02004
PROFILE VERSION A
26 APR 76
PAGE F4

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	109.2	111.1	113.0	113.5	114.0	111.6	111.8	112.4	111.9	114.1	116.1	117.9	121.0	121.8	122.6	119.3	115.0	105.0	95.0
250	107.1	109.0	110.9	111.4	111.9	109.5	109.7	110.2	109.7	112.0	114.0	115.7	118.9	119.7	120.5	117.2	112.9	102.9	92.9
315	105.0	106.9	108.8	109.2	109.7	107.4	107.5	108.0	107.5	109.7	111.8	113.5	116.7	117.5	118.4	115.1	110.8	100.8	90.8
400	102.9	104.8	106.6	107.1	107.5	105.2	105.3	105.8	105.2	107.5	109.5	111.3	114.6	115.4	116.2	113.0	108.7	98.7	88.7
500	100.7	102.6	104.5	104.9	105.3	103.0	103.1	103.6	102.9	105.2	107.3	109.1	112.3	113.2	114.0	110.8	106.5	96.5	86.5
630	98.5	100.4	102.2	102.6	103.1	100.7	100.8	101.2	100.6	102.8	104.9	106.7	110.0	110.9	111.7	108.6	104.2	94.2	84.2
800	96.2	98.2	100.0	100.3	100.8	98.4	98.5	98.9	98.1	100.4	102.5	104.3	107.6	108.5	109.4	106.2	101.8	91.8	81.8
1000	93.9	95.9	97.7	98.0	98.4	96.0	96.1	95.4	95.6	97.9	100.0	101.9	105.2	106.1	107.0	103.8	99.3	89.3	79.3
1250	91.5	93.5	95.3	95.6	95.9	93.5	93.6	93.9	93.0	95.3	97.4	99.3	102.6	103.5	104.4	101.2	96.6	86.6	76.6
1600	89.1	91.1	92.8	93.1	93.4	91.0	91.0	91.2	90.3	92.5	94.6	96.6	99.9	100.8	101.7	98.5	93.7	83.7	73.7
2000	86.5	88.5	90.2	90.5	90.7	88.3	88.3	88.4	87.5	89.7	91.8	93.7	97.2	98.1	99.0	95.7	90.8	80.8	70.8
2500	83.7	85.7	87.5	87.7	87.9	85.5	85.4	85.5	84.4	86.6	88.7	90.6	94.0	95.0	95.9	92.4	87.4	77.4	67.4
3150	80.6	82.6	84.4	84.6	84.8	82.4	82.3	82.3	81.2	83.2	85.3	87.3	90.6	91.5	92.4	88.8	83.7	73.7	63.7
4000	77.1	79.1	81.0	81.2	81.3	79.0	78.8	78.8	77.6	79.6	81.6	83.6	86.8	87.8	88.7	84.9	79.7	69.7	59.7
5000	73.1	75.1	77.0	77.2	77.4	75.1	74.8	74.8	73.6	75.5	77.5	79.5	82.6	83.5	84.5	80.6	75.3	65.3	55.3
6300	68.8	70.8	72.8	73.0	73.1	70.8	70.5	70.5	69.3	71.0	73.0	75.0	78.2	79.2	80.1	76.1	70.8	60.8	50.8
8000	65.0	67.0	68.9	69.0	69.1	66.8	66.5	66.5	65.0	66.7	68.7	70.8	74.2	75.2	76.2	72.4	67.1	57.1	47.1
10000	60.8	62.8	64.6	64.7	64.6	62.4	62.0	61.8	60.3	62.1	64.1	66.2	70.0	71.0	72.0	68.4	63.2	53.2	43.2
12500	56.3	58.2	59.9	59.9	59.8	57.5	57.1	56.8	55.2	57.1	59.1	61.3	65.4	66.6	67.6	64.2	59.0	49.0	39.0
16000	51.2	53.2	54.8	54.6	54.4	52.1	51.5	51.2	49.5	51.8	53.7	56.0	60.6	61.7	62.8	59.7	54.7	44.7	34.7
20000	45.6	47.6	49.3	48.8	48.4	46.1	45.6	45.2	43.4	45.0	48.0	50.5	55.4	56.5	57.7	55.0	50.2	40.2	30.2
25000	39.3	41.3	42.5	42.2	41.8	39.4	39.0	38.5	36.8	39.7	41.9	44.5	49.8	51.0	52.3	50.2	45.6	35.6	25.6

TABLE TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
MIL PWR, 70% RPM, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 07
AIRCRAFT CODE 517
OPERATION CODE 02004
PROFILE VERSION A
26 APR 76
PAGE G4

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	109.2	111.1	113.0	113.5	114.0	111.6	111.8	112.4	111.9	114.1	116.1	117.9	121.0	121.8	122.6	119.3	115.0	105.0	95.0
250	107.1	109.0	110.9	111.4	111.9	109.5	109.7	110.2	109.7	112.0	114.0	115.7	118.9	119.7	120.5	117.2	112.9	102.9	92.9
315	105.0	106.9	108.8	109.2	109.7	107.4	107.5	108.0	107.5	109.7	111.8	113.5	116.7	117.5	118.4	115.1	110.8	100.8	90.8
400	102.9	104.8	106.6	107.1	107.5	105.2	105.3	105.8	105.2	107.5	109.5	111.3	114.6	115.4	116.2	113.0	108.7	98.7	88.7
500	100.7	102.6	104.5	104.9	105.3	103.0	103.1	103.6	102.9	105.2	107.3	109.1	112.3	113.2	114.0	110.8	106.5	96.5	86.5
630	98.5	100.4	102.2	102.6	103.1	100.7	100.8	101.2	100.6	102.8	104.9	106.7	110.0	110.9	111.7	108.6	104.2	94.2	84.2
800	96.2	98.2	100.0	100.3	100.8	98.4	98.5	98.9	98.1	100.4	102.5	104.3	107.6	108.5	109.4	106.2	101.8	91.8	81.8
1000	93.9	95.9	97.7	98.0	98.4	96.0	96.1	96.4	95.6	97.9	100.0	101.9	105.2	106.1	107.0	103.8	99.3	89.3	79.3
1250	91.5	93.5	95.3	95.6	95.9	93.5	93.6	93.9	93.0	95.3	97.4	99.3	102.6	103.5	104.4	101.2	96.6	86.6	76.6
1600	89.1	91.1	92.8	93.1	93.4	91.0	91.0	91.2	90.3	92.5	94.6	96.6	99.9	100.8	101.7	98.5	93.7	83.7	73.7
2000	86.5	88.5	90.2	90.5	90.7	88.3	88.3	88.4	87.5	89.7	91.8	93.7	97.2	98.1	99.0	95.7	90.8	80.8	70.8
2500	83.7	85.7	87.5	87.7	87.9	85.5	85.4	85.5	84.4	86.6	88.7	90.6	94.0	95.0	95.9	92.4	87.4	77.4	67.4
3150	80.6	82.6	84.4	84.6	84.8	82.4	82.3	82.3	81.2	83.2	85.3	87.3	90.6	91.5	92.4	88.8	83.7	73.7	63.7
4000	77.1	79.1	81.0	81.2	81.3	79.0	78.8	78.8	77.6	79.6	81.6	83.6	86.8	87.8	88.7	84.9	79.7	69.7	59.7
5000	73.1	75.1	77.0	77.2	77.4	75.1	74.8	74.8	73.6	75.5	77.5	79.5	82.6	83.6	84.5	80.6	75.3	65.3	55.3
6300	68.8	70.8	72.8	73.0	73.1	70.8	70.5	70.5	69.3	71.0	73.0	75.0	78.2	79.2	80.1	76.1	70.8	60.8	50.8
8000	65.0	67.0	68.9	69.0	69.1	66.8	66.9	66.3	65.0	66.7	68.7	70.8	74.2	75.2	76.2	72.4	67.1	57.1	47.1
10000	60.8	62.8	64.6	64.7	64.6	62.4	62.0	61.8	60.3	62.1	64.1	66.2	70.0	71.0	72.0	68.4	63.2	53.2	43.2
12500	56.3	58.2	59.9	59.9	59.8	57.5	57.1	55.8	55.2	57.1	59.1	61.3	65.4	66.6	67.6	64.2	59.0	49.0	39.0
16000	51.2	53.2	54.8	54.6	54.4	52.1	51.6	51.2	49.5	51.8	53.7	56.0	60.6	61.7	62.8	59.7	54.7	44.7	34.7
20000	45.6	47.6	49.0	48.8	48.4	46.1	45.6	45.2	43.4	46.0	48.0	50.5	55.4	56.5	57.7	55.0	50.2	40.2	30.2
25000	39.3	41.3	42.5	42.2	41.8	39.4	39.0	38.5	36.8	39.7	41.9	44.5	49.8	51.0	52.3	50.2	45.6	35.6	25.6

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
MIL PWR, 70% RPM, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 07
AIRCRAFT CODE 517
OPERATION CODE 02004
PROFILE VERSION A
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P=PNLT A=AL T=ALT

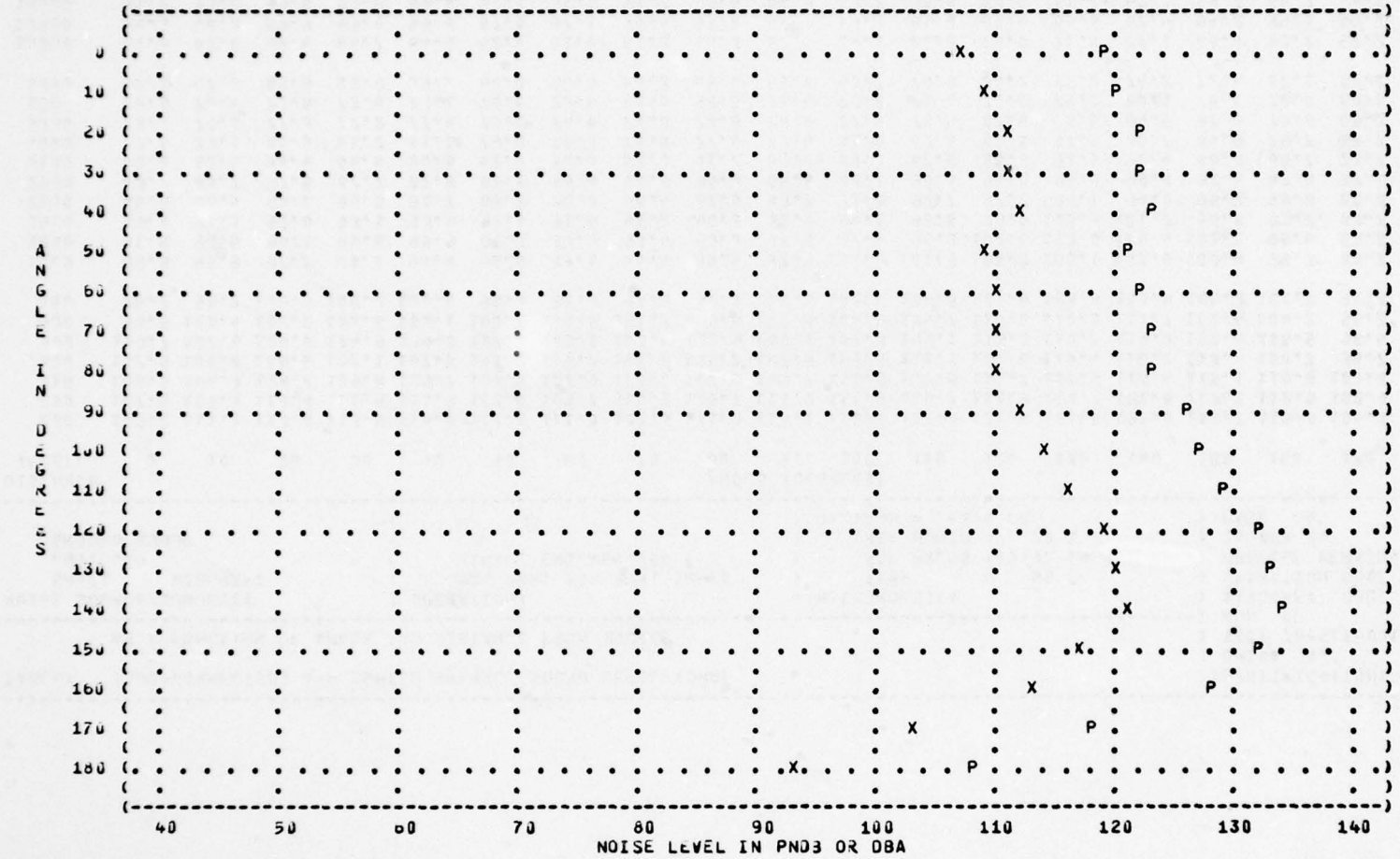


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

(DATA PROVIDED BY NASA FLIGHT RESEARCH CENTER)

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 08

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
MIN PWR A/B, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

AIRCRAFT CODE 517
OPERATION CODE 02042
PROFILE VERSION A
26 APR 76
PAGE C5

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	94	94	96	95	93	96	97	98	99	101	102	104	111	115	119	118	114	104	94
63	96	97	97	94	91	98	99	100	101	102	103	107	115	119	122	120	116	106	96
80	98	99	98	95	92	99	100	100	101	104	105	108	117	120	124	122	117	107	97
100	100	99	99	97	95	100	100	101	102	104	106	110	118	121	124	121	118	108	98
125	102	100	101	99	97	101	101	102	103	105	107	112	120	121	121	121	118	106	98
160	102	100	101	100	99	101	102	102	102	105	108	112	123	121	120	119	116	106	96
200	101	100	100	101	101	101	101	101	102	106	109	113	121	121	120	116	115	105	95
250	99	100	101	101	101	101	101	101	102	106	110	114	122	121	119	115	113	103	93
315	98	100	101	102	102	102	102	102	102	107	110	113	120	119	118	114	110	100	90
400	102	103	102	102	103	102	102	102	102	106	109	112	119	118	116	112	107	97	87
500	104	105	106	106	106	103	103	102	102	105	107	111	117	116	115	110	103	93	83
630	101	102	105	106	107	106	105	104	103	105	107	109	116	115	114	108	102	92	82
800	101	101	104	105	106	105	105	105	103	105	107	109	116	114	113	107	102	92	82
1000	101	102	104	105	106	104	105	105	105	106	109	111	116	114	113	107	102	92	82
1250	99	101	104	105	106	104	104	104	104	107	110	112	115	113	112	106	101	91	81
1600	97	99	102	103	105	103	103	104	103	106	109	110	114	112	110	105	100	90	80
2000	95	97	100	102	103	102	102	103	102	105	107	109	113	111	109	103	98	88	78
2500	95	96	98	100	102	101	102	102	102	105	107	108	112	110	108	102	96	86	76
3150	94	93	97	99	101	100	101	101	101	103	105	107	112	110	108	101	95	85	75
4000	91	91	97	98	100	98	99	100	99	101	104	106	111	109	107	99	92	82	72
5000	87	90	93	95	97	96	97	98	98	100	102	105	110	108	106	97	91	81	71
6300	85	86	89	92	93	94	95	96	95	99	102	104	109	107	106	95	89	79	69
8000	82	82	88	89	91	91	92	94	94	97	100	103	109	107	106	94	86	76	66
10000	77	79	82	85	86	87	89	91	92	95	98	102	109	107	106	93	83	73	63
OVERALL	113	113	115	115	116	115	115	116	115	118	121	124	131	131	131	129	126	116	106

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
MIN PWR A/B, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 08
AIRCRAFT CODE 517
OPERATION CODE 02042
PROFILE VERSION A
26 APR 76
PAGE D5

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	123.3	124.1	126.6	127.8	129.0	128.3	128.7	129.3	129.2	131.7	134.2	136.4	142.0	140.7	139.5	134.9	130.7	120.7	110.7
250	121.2	122.0	124.4	125.6	126.8	126.1	126.5	127.1	127.0	129.5	131.9	134.2	139.8	138.5	137.3	132.8	128.6	118.6	108.6
315	119.0	119.8	122.2	123.3	124.5	123.8	124.2	124.8	124.7	127.2	129.7	131.9	137.5	136.2	135.1	130.6	126.5	116.5	106.5
400	116.8	117.6	119.9	121.0	122.2	121.4	121.9	122.5	122.3	124.9	127.3	129.6	135.2	133.9	132.7	128.5	124.4	114.3	104.3
500	114.5	115.3	117.5	118.6	119.8	119.0	119.5	120.1	119.9	122.4	124.9	127.2	132.7	131.4	130.3	126.2	122.1	112.1	102.0
630	112.2	112.9	115.1	116.1	117.2	116.5	117.0	117.5	117.3	119.9	122.3	124.6	130.1	128.9	127.9	123.7	119.6	109.6	99.5
800	109.7	110.5	112.6	113.5	114.6	113.8	114.3	114.9	114.6	117.2	119.7	121.9	127.5	126.3	125.4	121.2	117.0	107.0	96.9
1000	107.2	108.0	109.9	110.8	111.8	111.0	111.5	112.0	111.8	114.4	116.8	119.1	124.7	123.6	122.8	118.5	114.3	104.3	94.1
1250	104.4	105.2	107.0	107.9	108.8	108.0	108.5	109.0	108.8	111.3	113.8	116.1	121.8	120.8	119.8	115.6	111.3	101.3	91.0
1600	101.6	102.4	104.0	104.8	105.7	104.8	105.2	105.8	105.5	108.0	110.5	112.9	118.8	117.8	116.9	112.6	108.1	98.0	87.5
2000	98.5	99.4	100.9	101.5	102.4	101.4	101.8	102.3	101.9	104.6	107.1	109.5	115.7	114.7	113.7	109.5	104.6	94.4	83.9
2500	95.2	96.0	97.5	98.0	98.8	98.0	98.1	98.5	98.0	100.8	103.3	105.8	111.9	110.8	109.9	105.7	100.8	90.5	79.9
3150	91.3	92.1	93.6	94.3	95.0	94.3	94.2	94.5	94.0	96.7	99.3	101.7	107.6	106.6	105.7	101.4	96.4	86.0	75.4
4000	86.9	87.8	89.3	90.1	90.9	90.1	89.9	90.0	89.4	92.2	94.7	97.2	103.0	102.0	101.2	96.6	91.5	80.9	70.4
5000	82.3	83.2	84.7	85.4	86.2	85.4	85.3	85.5	84.6	87.3	89.8	92.3	98.2	97.2	96.3	91.7	86.2	75.6	65.0
6300	77.4	78.3	79.7	80.5	81.3	80.4	80.5	80.6	79.7	82.1	84.8	87.3	93.1	92.2	91.3	86.7	81.1	70.6	59.8
8000	73.5	74.4	75.7	76.3	77.0	76.2	76.0	76.1	75.1	77.4	80.0	82.7	89.2	88.3	87.5	82.9	77.4	66.8	55.6
10000	69.3	70.1	71.4	71.7	72.4	71.7	71.4	71.3	70.2	72.9	75.3	78.4	85.1	84.2	83.5	79.0	73.5	62.7	51.0
12500	64.7	65.5	66.7	66.8	67.4	66.7	66.4	66.1	65.2	68.1	70.6	73.8	80.7	79.9	79.2	74.8	69.3	58.3	45.8
16000	59.5	60.5	61.5	61.6	61.8	61.2	60.9	60.5	59.9	63.0	65.5	68.8	75.9	75.2	74.6	70.3	64.9	53.5	40.2
20000	53.9	54.8	55.7	55.8	55.9	55.0	54.7	54.3	54.0	57.2	59.8	63.4	70.7	70.1	69.6	65.5	60.4	48.1	33.8
25000	47.4	48.2	49.2	49.2	49.2	48.0	47.8	47.5	47.3	50.8	53.5	57.2	65.1	64.5	64.2	60.6	55.9	41.9	24.5

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
MIN PWR A/B, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 08
AIRCRAFT CODE 517
OPERATION CODE 02042
PROFILE VERSION A
26 APR 76
PAGE E5

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	124.4	124.1	126.6	127.8	129.0	128.3	128.7	129.3	129.2	131.7	134.2	136.4	142.0	140.7	139.5	134.9	130.7	120.7	110.7
250	122.3	122.0	124.4	125.6	126.8	126.1	126.5	127.1	127.0	129.5	131.9	134.2	139.8	138.5	137.3	132.8	128.6	118.6	108.6
315	120.1	119.8	122.2	123.3	124.5	123.8	124.2	124.8	124.7	127.2	129.7	131.9	137.5	136.2	135.1	130.6	126.5	116.5	106.5
400	117.9	117.6	119.9	121.0	122.2	121.4	121.9	122.5	122.3	124.9	127.3	129.6	135.2	133.9	132.7	128.5	124.4	114.3	104.3
500	115.6	115.3	117.5	118.6	119.8	119.0	119.5	120.1	119.9	122.4	124.9	127.2	132.7	131.4	130.3	126.2	122.1	112.1	102.0
630	113.3	112.9	115.1	116.1	117.2	116.5	117.0	117.5	117.3	119.9	122.3	124.6	130.1	128.9	127.9	123.7	119.6	109.6	99.5
800	110.8	110.5	112.6	113.5	114.6	113.8	114.3	114.9	114.6	117.2	119.7	121.9	127.5	126.3	125.4	121.2	117.0	107.0	96.9
1000	108.2	108.0	109.9	110.8	111.8	111.0	111.5	112.0	111.8	114.4	116.8	119.1	124.7	123.5	122.8	118.5	114.3	104.3	94.1
1250	105.5	105.2	107.0	107.9	108.8	108.0	108.5	109.0	108.8	111.3	113.8	116.1	121.8	120.8	119.8	115.6	111.3	101.3	91.0
1500	102.7	102.4	104.0	104.8	105.7	104.8	105.2	105.8	105.5	108.0	110.5	112.9	118.8	117.8	116.9	112.6	108.1	98.0	87.5
2000	99.6	99.4	100.9	101.5	102.4	101.4	101.8	102.3	101.9	104.6	107.1	109.5	115.7	114.7	113.7	109.5	104.6	94.4	83.9
2500	96.3	96.0	97.5	98.0	98.8	98.0	98.1	98.5	98.4	100.8	103.3	105.8	111.9	110.8	109.9	105.7	100.8	90.5	79.9
3150	92.3	92.1	93.6	94.3	95.0	94.3	94.2	94.5	94.0	96.7	99.3	101.7	107.6	106.5	105.7	101.4	96.4	86.0	75.4
4000	87.8	87.6	89.3	90.1	90.9	90.1	89.9	90.0	89.4	92.2	94.7	97.2	103.0	102.0	101.2	96.6	91.5	80.9	70.4
5000	82.9	83.2	84.7	85.4	86.2	85.4	85.3	85.5	84.6	87.3	89.8	92.3	98.2	97.2	96.3	91.7	86.2	75.6	65.0
6300	77.8	78.3	79.7	80.5	81.3	80.4	80.5	80.6	79.7	82.1	84.8	87.3	93.1	92.2	91.3	86.7	81.1	70.6	59.8
8000	73.7	74.4	75.7	76.3	77.0	76.2	76.0	76.1	75.1	77.4	80.0	82.7	89.2	88.3	87.5	82.9	77.4	66.8	55.6
10000	69.3	70.1	71.4	71.7	72.4	71.7	71.4	71.3	70.2	72.9	75.3	78.4	85.1	84.2	83.5	79.0	73.5	62.7	51.0
12500	64.7	65.5	66.7	66.8	67.4	66.7	66.4	66.1	65.2	68.1	70.6	73.8	80.7	79.9	79.2	74.8	69.3	58.3	45.8
16000	59.5	60.5	61.5	61.6	61.8	61.2	60.9	60.5	59.9	63.0	65.5	68.8	75.9	75.2	74.6	70.3	64.9	53.5	40.2
20000	53.9	54.8	55.7	55.8	55.9	55.0	54.7	54.3	54.0	57.2	59.8	63.4	70.7	70.1	69.6	65.5	60.4	48.1	33.8
25000	47.4	48.2	49.2	49.2	49.2	48.0	47.8	47.5	47.3	50.8	53.5	57.2	65.1	64.6	64.2	60.6	55.9	41.9	24.5

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
MIN PWR A/B, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 08
AIRCRAFT CODE 517
OPERATION CODE 02042
PROFILE VERSION A
26 APR 76

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	111.3	112.3	114.8	115.9	117.0	115.6	115.8	116.2	115.6	118.0	120.6	122.8	128.1	126.6	125.2	120.2	115.7	105.7	95.7
250	109.2	110.2	112.7	113.7	114.8	113.4	113.7	114.6	113.4	115.8	118.4	120.7	126.0	124.5	123.0	118.1	113.6	103.6	93.6
315	107.1	108.0	110.6	111.6	112.7	111.3	111.5	111.8	111.2	113.6	116.2	118.5	123.8	122.3	120.9	116.0	111.5	101.5	91.5
400	104.9	105.9	108.4	109.4	110.5	109.1	109.3	109.6	109.0	111.4	114.0	116.2	121.6	120.1	118.7	113.9	109.4	99.4	89.4
500	102.7	103.7	106.2	107.2	108.2	106.8	107.0	107.3	106.7	109.1	111.7	114.0	119.3	117.9	116.4	111.7	107.2	97.2	87.2
630	100.5	101.5	103.9	104.9	105.9	104.5	104.7	105.0	104.3	106.7	109.3	111.6	117.0	115.5	114.1	109.4	104.8	94.8	84.8
800	98.2	99.2	101.6	102.6	103.6	102.2	102.3	102.6	101.9	104.3	106.9	109.2	114.6	113.2	111.8	107.1	102.4	92.4	82.4
1000	95.8	96.8	99.2	100.2	101.1	99.7	99.9	100.1	99.4	101.8	104.4	106.7	112.1	110.7	109.3	104.6	99.9	89.9	79.9
1250	93.4	94.4	96.8	97.7	98.6	97.2	97.3	97.5	96.8	99.2	101.8	104.1	109.5	108.1	106.7	102.0	97.2	87.2	77.2
1500	90.9	91.9	94.2	95.1	96.0	94.6	94.7	94.8	94.1	96.5	99.1	101.4	106.8	105.4	104.1	99.3	94.3	84.3	74.3
2000	88.3	89.3	91.5	92.4	93.3	91.9	91.9	92.1	91.3	93.6	96.2	98.6	104.0	102.7	101.3	96.4	91.3	81.3	71.3
2500	85.5	86.4	88.7	89.5	90.4	89.0	89.0	89.1	88.2	90.6	93.1	95.5	100.9	99.6	98.2	93.2	88.0	78.0	68.0
3150	82.3	83.2	85.5	86.4	87.2	85.9	85.8	85.9	85.0	87.2	89.8	92.1	97.6	96.2	94.8	89.7	84.4	74.4	64.4
4000	78.7	79.7	82.0	82.9	83.7	82.4	82.3	82.3	81.4	83.6	86.1	88.5	93.9	92.5	91.1	85.9	80.4	70.4	60.4
5000	74.7	75.6	78.1	78.9	79.7	78.4	78.3	78.3	77.4	79.5	82.1	84.4	89.7	88.4	87.0	81.8	76.2	66.2	56.2
6300	70.4	71.3	73.8	74.6	75.4	74.1	74.0	74.0	73.0	75.0	77.7	80.0	85.3	84.0	82.7	77.3	71.8	61.8	51.8
8000	66.5	67.4	69.7	70.5	71.3	70.0	69.8	69.8	68.7	70.8	73.3	75.7	81.3	80.1	78.7	73.5	67.9	57.9	47.9
10000	62.2	63.1	65.3	66.0	66.7	65.5	65.3	65.1	64.1	66.1	68.6	71.1	77.0	75.8	74.5	69.4	63.8	53.8	43.8
12500	57.6	58.5	60.5	61.1	61.8	60.6	60.3	60.1	59.0	61.1	63.5	66.2	72.3	71.1	69.9	65.0	59.6	49.6	39.6
16000	52.5	53.4	55.2	55.7	56.3	55.1	54.8	54.5	53.4	55.7	58.1	60.9	67.3	66.2	65.0	60.3	55.2	45.2	35.2
20000	48.9	47.9	49.4	49.8	50.3	49.1	48.7	48.4	47.4	50.0	52.3	55.2	62.0	60.8	59.8	55.6	50.7	40.7	30.7
25000	40.8	41.7	42.9	43.3	43.7	42.5	42.1	41.8	41.0	43.8	46.1	49.3	56.3	55.3	54.5	50.8	46.4	36.4	26.4

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
MIN PWR A/B, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 08
AIRCRAFT CODE 517
OPERATION CODE 02042
PROFILE VERSION A
26 APR 76
PAGE G5

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	112.4	112.3	114.8	115.9	117.0	115.6	115.8	116.2	115.6	118.0	120.6	122.8	128.1	126.6	125.2	120.2	115.7	105.7	95.7
250	110.3	110.2	112.7	113.7	114.8	113.4	113.7	114.0	113.4	115.8	118.4	120.7	126.0	124.5	123.0	118.1	113.6	103.6	93.6
315	108.1	108.0	110.6	111.6	112.7	111.3	111.5	111.8	111.2	113.6	116.2	118.5	123.8	122.3	120.9	116.0	111.5	101.5	91.5
400	106.0	105.9	108.4	109.4	110.5	109.1	109.3	109.6	109.0	111.4	114.0	116.2	121.6	120.1	118.7	113.9	109.4	99.4	89.4
500	103.8	103.7	106.2	107.2	108.2	106.8	107.0	107.3	106.7	109.1	111.7	114.0	119.3	117.9	116.4	111.7	107.2	97.2	87.2
630	101.6	101.5	103.9	104.9	105.9	104.5	104.7	105.0	104.3	106.7	109.3	111.6	117.0	115.5	114.1	109.4	104.8	94.8	84.8
800	99.3	99.2	101.6	102.6	103.6	102.2	102.3	102.6	101.9	104.3	106.9	109.2	114.6	113.2	111.8	107.1	102.4	92.4	82.4
1000	96.9	96.8	99.2	100.2	101.1	99.7	99.9	100.1	99.4	101.8	104.4	106.7	112.1	110.7	109.3	104.6	99.9	89.9	79.9
1250	94.5	94.4	96.8	97.7	98.6	97.2	97.3	97.5	96.8	99.2	101.8	104.1	109.5	108.1	106.7	102.0	97.2	87.2	77.2
1600	92.0	91.9	94.2	95.1	96.0	94.6	94.7	94.8	94.1	96.5	99.1	101.4	106.8	105.4	104.1	99.3	94.3	84.3	74.3
2000	89.4	89.3	91.5	92.4	93.3	91.9	91.9	92.1	91.3	93.6	96.2	98.6	104.0	102.7	101.3	96.4	91.3	81.3	71.3
2500	86.5	86.4	88.7	89.5	90.4	89.0	89.0	89.1	88.2	90.6	93.1	95.5	100.9	99.6	98.2	93.2	88.0	78.0	68.0
3150	83.3	83.2	85.5	86.4	87.2	85.9	85.8	85.9	85.0	87.2	89.8	92.1	97.6	96.2	94.8	89.7	84.4	74.4	64.4
4000	79.6	79.7	82.0	82.9	83.7	82.4	82.3	82.3	81.4	83.6	86.1	88.5	93.9	92.5	91.1	85.9	80.4	70.4	60.4
5000	75.4	75.6	78.1	78.9	79.7	78.4	78.3	78.3	77.4	79.5	82.1	84.4	89.7	88.4	87.0	81.8	76.2	66.2	56.2
6300	70.9	71.3	73.8	74.6	75.4	74.1	74.0	74.0	73.0	75.0	77.7	80.0	85.3	84.0	82.7	77.3	71.8	61.8	51.8
8000	66.7	67.4	69.7	70.5	71.3	70.0	69.8	69.8	68.7	70.8	73.3	75.7	81.3	80.1	78.7	73.5	67.9	57.9	47.9
10000	62.2	63.1	65.3	66.0	66.7	65.2	65.3	65.1	64.1	66.1	68.6	71.1	77.0	75.8	74.5	69.4	63.8	53.8	43.8
12500	57.6	58.5	60.5	61.1	61.8	60.6	60.3	60.1	59.0	61.1	63.5	66.2	72.3	71.1	69.9	65.0	59.6	49.6	39.6
16000	52.5	53.4	55.2	55.7	56.3	55.1	54.8	54.5	53.4	55.7	58.1	60.9	67.3	66.2	65.0	60.3	55.2	45.2	35.2
20000	46.9	47.9	49.4	49.8	50.3	49.1	48.7	48.4	47.4	50.0	52.3	55.2	62.0	60.8	59.8	55.6	50.7	40.7	30.7
25000	40.8	41.7	42.9	43.3	43.7	42.5	42.1	41.8	41.0	43.8	46.1	49.3	56.3	55.3	54.5	50.8	46.4	36.4	26.4

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
MIN PWR A/B, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 08
AIRCRAFT CODE 517
OPERATION CODE 02042
PROFILE VERSION A
26 APR 76
PAGE J5

P=PNLT A=AL T=ALT

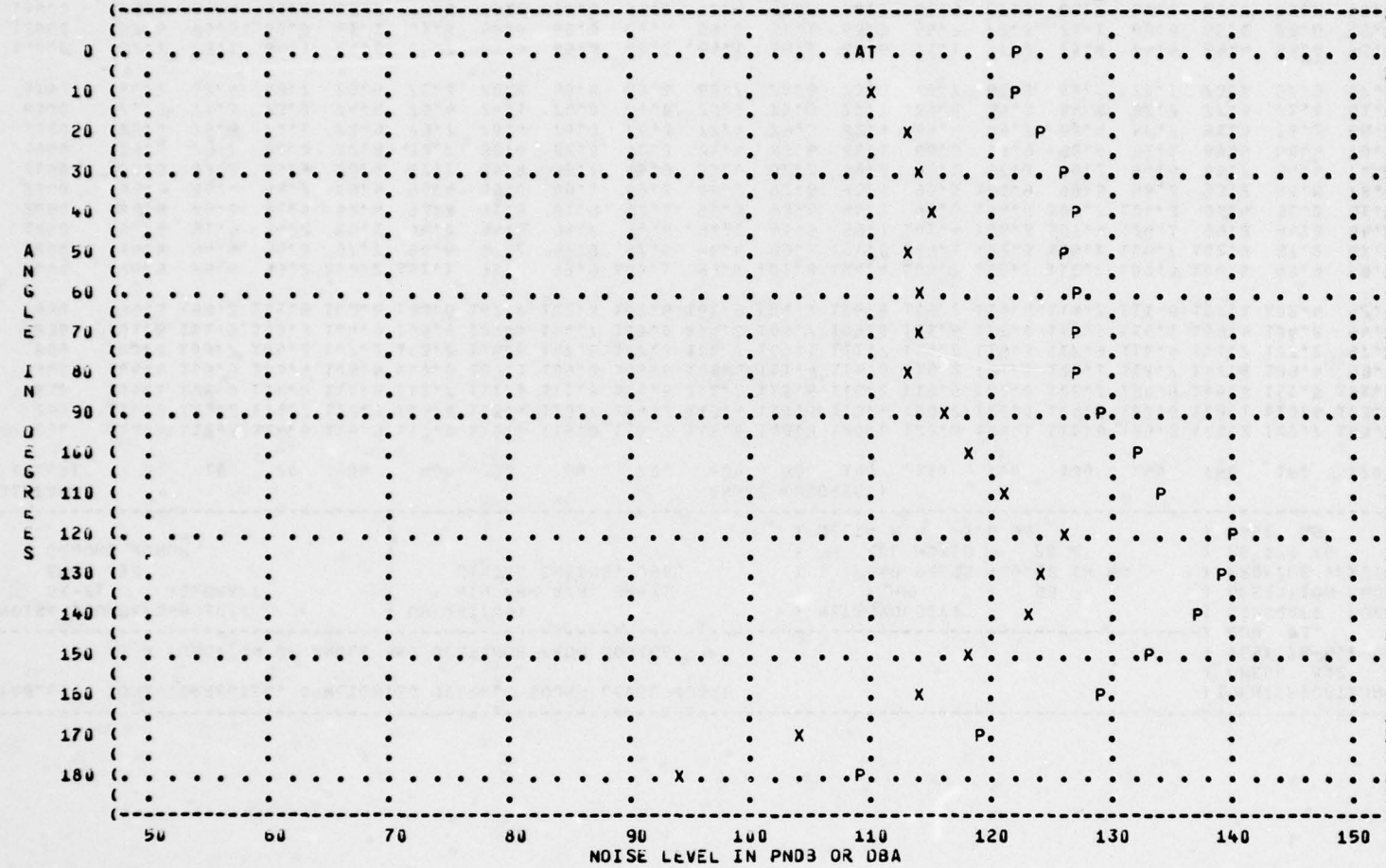


TABLE: NORMALIZED SOUND PRESSURE LEVEL (DB)
1/3 OCTAVE BAND
DISTANCE = 250 FEET

(DATA PROVIDED BY NASA FLIGHT RESEARCH CENTER)

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 09
AIRCRAFT CODE 517
OPERATION CODE 02003
PROFILE VERSION A
26 APR 76
PAGE C6

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
MAX PWR A/B, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

BAND CENTER FREQ (HZ)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
50	97	98	98	95	91	99	100	101	102	104	104	107	115	116	120	118	113	103	93
63	98	99	100	96	93	100	101	102	104	105	107	111	119	121	123	118	114	104	94
80	100	101	100	98	95	101	102	103	104	106	108	112	120	122	124	119	115	105	95
100	101	101	101	99	97	102	103	104	105	107	109	113	121	123	124	121	116	106	96
125	102	101	102	101	100	103	104	104	104	108	110	115	122	122	123	120	116	106	96
160	103	101	102	102	101	103	104	104	105	108	111	117	125	123	120	118	114	104	94
200	102	101	101	102	102	103	103	104	105	109	112	117	125	122	119	116	113	103	93
250	99	100	101	102	103	103	104	104	105	110	113	118	124	121	119	115	111	101	91
315	98	100	101	102	103	103	104	105	105	110	113	117	123	121	118	113	109	99	89
400	99	101	101	103	104	103	104	105	105	109	112	116	122	119	117	111	105	95	85
500	102	104	104	105	106	104	104	105	105	109	110	115	120	118	115	109	102	92	82
630	99	100	104	105	107	106	105	105	105	108	109	113	119	116	114	107	100	90	80
800	99	99	103	105	107	106	106	106	104	107	108	112	118	115	112	105	99	89	79
1000	98	99	102	105	107	105	106	106	105	108	110	112	118	114	111	105	99	89	79
1250	99	99	103	104	106	105	105	106	105	109	111	112	117	114	110	105	98	88	78
1600	98	98	102	104	106	104	104	105	105	108	110	112	116	113	109	103	97	87	77
2000	95	96	100	102	104	102	103	104	103	107	108	110	115	112	108	101	96	86	76
2500	94	94	98	101	103	102	102	103	103	107	108	110	115	111	107	100	94	84	74
3150	93	92	98	100	102	101	101	102	102	106	106	109	114	110	107	99	92	82	72
4000	91	90	97	99	100	99	100	101	100	104	105	107	113	110	106	97	90	80	70
5000	87	88	93	96	98	96	97	99	99	102	103	107	112	109	105	94	88	78	68
6300	84	84	90	92	94	94	95	96	97	102	103	107	111	108	105	93	87	77	67
8000	82	80	88	90	92	91	93	94	95	100	101	106	112	108	105	91	83	73	63
10000	76	76	83	85	87	88	89	91	93	98	100	105	112	109	106	91	81	71	61
OVERALL	112	113	114	115	117	116	117	117	117	121	123	127	134	132	132	128	123	113	103

TABLE: PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
MAX PWR A/B, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 09
AIRCRAFT CODE 517
OPERATION CODE 02003
PROFILE VERSION A
26 APR 76
PAGE D6

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	122.9	123.2	126.7	128.1	129.7	129.1	129.7	130.5	130.6	134.2	135.6	138.7	144.6	141.8	139.0	133.8	128.5	118.5	108.5
250	120.7	121.0	124.5	125.9	127.5	126.9	127.5	128.2	128.4	131.9	133.4	136.5	142.3	139.5	136.9	131.7	126.4	116.4	106.4
315	118.4	118.8	122.2	123.7	125.2	124.6	125.2	126.0	126.1	129.7	131.1	134.2	140.0	137.3	134.7	129.5	124.3	114.3	104.2
400	116.1	116.6	119.9	121.4	122.9	122.3	122.9	123.7	123.7	127.3	128.8	131.8	137.7	134.9	132.5	127.4	122.1	112.1	102.1
500	113.8	114.3	117.5	119.0	120.5	119.8	120.5	121.2	121.3	124.9	126.4	129.3	135.2	132.5	130.2	125.1	119.9	109.9	99.8
630	111.4	112.0	115.1	116.5	118.0	117.3	118.0	118.7	118.8	122.3	123.8	126.8	132.7	130.1	127.8	122.6	117.4	107.4	97.3
800	108.8	109.5	112.6	113.9	115.3	114.7	115.3	116.1	116.1	119.7	121.2	124.1	130.0	127.6	125.2	120.1	114.8	104.8	94.6
1000	106.2	107.0	109.9	111.2	112.6	111.9	112.5	113.3	113.3	116.9	118.4	121.3	127.4	124.9	122.5	117.4	112.1	102.1	91.8
1250	103.4	104.3	107.0	108.3	109.7	108.9	109.5	110.3	110.3	113.8	115.4	118.4	124.5	122.0	119.7	114.4	109.1	99.0	88.6
1600	100.5	101.4	104.0	105.3	106.6	105.7	106.4	107.1	107.0	110.6	112.3	115.5	121.6	119.1	116.7	111.4	105.9	95.8	85.2
2000	97.4	98.3	100.7	102.0	103.3	102.4	103.0	103.7	103.5	107.2	108.9	112.4	118.4	116.0	113.6	108.3	102.7	92.4	81.9
2500	94.6	94.9	97.0	98.3	99.7	98.7	99.4	100.0	99.8	103.5	105.2	108.5	114.6	112.1	109.7	104.5	98.8	88.4	77.8
3150	90.6	91.0	93.0	94.3	95.8	94.8	95.3	96.0	95.7	99.4	101.1	104.2	110.4	107.9	105.5	100.3	94.5	83.9	73.3
4000	85.6	86.6	88.6	90.0	91.5	90.6	90.9	91.5	91.1	94.8	96.6	99.7	105.8	103.4	101.0	95.4	89.4	78.9	68.3
5000	80.9	81.9	83.9	85.3	87.0	86.0	86.3	86.7	86.3	89.9	91.7	94.9	101.0	98.6	96.1	90.4	84.2	73.7	63.0
6300	75.9	77.0	79.0	80.5	82.1	81.2	81.4	81.8	81.1	84.7	86.5	89.9	96.1	93.6	91.1	85.4	79.1	68.6	57.6
8000	71.9	73.1	74.8	76.2	77.7	76.8	77.1	77.4	76.8	80.3	82.1	85.9	92.2	89.7	87.3	81.7	75.4	64.8	53.5
10000	67.7	68.9	70.4	71.6	73.0	72.1	72.3	72.6	72.4	76.0	77.8	81.7	88.1	85.7	83.4	77.8	71.6	60.8	48.7
12500	63.6	64.3	65.7	66.7	68.0	67.2	67.4	67.6	67.7	71.3	73.2	77.3	83.7	81.4	79.2	73.6	67.4	56.3	43.5
16000	57.9	59.2	60.5	61.4	62.5	61.7	61.9	62.3	62.6	66.3	68.2	72.4	79.0	76.8	74.6	69.2	62.9	51.3	37.6
20000	52.2	53.6	54.8	55.6	56.5	55.6	55.9	56.5	56.9	60.6	62.7	67.1	73.9	71.8	69.7	64.3	58.2	45.6	31.0
25000	45.6	47.1	48.2	49.0	50.0	49.0	49.5	50.1	50.5	54.4	56.6	61.3	68.3	66.3	64.4	59.4	53.2	39.3	21.1

TABLE: TONE-CORRECTED, PERCEIVED NOISE LEVEL (PNDB)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 09
AIRCRAFT CODE 517
OPERATION CODE 02003
PROFILE VERSION A
26 APR 76
PAGE E6

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
MAX PWR A/B, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %

DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	124.0	123.2	120.7	128.1	129.7	129.1	129.7	130.5	130.6	134.2	135.6	138.7	144.6	141.8	139.0	133.8	128.5	118.5	108.5
250	121.8	121.0	124.5	125.9	127.5	126.9	127.5	128.2	128.4	131.9	133.4	136.5	142.3	139.5	136.9	131.7	126.4	116.4	106.4
315	119.6	118.8	122.2	123.7	125.2	124.6	125.2	126.0	126.1	129.7	131.1	134.2	140.0	137.3	134.7	129.5	124.3	114.3	104.2
400	117.3	116.6	119.9	121.4	122.9	122.3	122.9	123.7	123.7	127.3	128.8	131.8	137.7	134.9	132.5	127.4	122.1	112.1	102.1
500	114.9	114.3	117.6	119.0	120.5	119.8	120.5	121.2	121.3	124.9	126.4	129.3	135.2	132.5	130.2	125.1	119.9	109.9	99.8
630	112.5	112.0	115.1	116.5	118.0	117.3	118.0	118.7	118.8	122.3	123.8	126.8	132.7	130.1	127.8	122.6	117.4	107.4	97.3
800	110.0	109.5	112.6	113.9	115.3	114.7	115.3	116.1	116.1	119.7	121.2	124.1	130.0	127.6	125.2	120.1	114.8	104.8	94.6
1000	107.3	107.0	109.9	111.2	112.6	111.9	112.5	113.3	113.3	116.9	118.4	121.3	127.4	124.9	122.5	117.4	112.1	102.1	91.8
1250	104.5	104.3	107.0	108.3	109.7	108.9	109.5	110.3	110.3	113.8	115.4	118.4	124.5	122.0	119.7	114.4	109.1	99.0	88.6
1500	101.6	101.4	104.0	105.3	106.6	105.7	106.4	107.1	107.0	110.6	112.3	115.5	121.6	119.1	116.7	111.4	105.9	95.8	85.2
2000	98.5	98.3	100.7	102.0	103.3	102.4	103.0	103.7	103.5	107.2	108.9	112.4	118.4	116.0	113.6	108.3	102.7	92.4	81.9
2500	95.1	94.9	97.6	98.3	99.7	98.7	99.4	100.0	99.8	103.5	105.2	108.5	114.6	112.1	109.7	104.5	98.8	88.4	77.8
3150	91.1	91.0	93.0	94.3	95.8	94.8	95.3	96.0	95.7	99.4	101.1	104.2	110.4	107.9	105.5	100.3	94.5	83.9	73.3
4000	86.5	86.6	88.6	90.0	91.5	90.6	90.9	91.5	91.1	94.8	96.6	99.7	105.8	103.4	101.0	95.4	89.4	78.9	68.3
5000	81.5	81.9	83.9	85.3	87.0	86.0	86.3	86.7	86.3	89.9	91.7	94.9	101.0	98.6	96.1	90.4	84.2	73.7	63.0
6300	76.4	77.0	79.0	80.5	82.1	81.2	81.4	81.8	81.1	84.7	86.5	89.9	96.1	93.6	91.1	85.4	79.1	68.6	57.6
8000	72.2	73.1	74.8	76.2	77.7	76.8	77.1	77.4	76.8	80.3	82.1	85.9	92.2	89.7	87.3	81.7	75.4	64.8	53.5
10000	67.7	68.9	70.4	71.6	73.0	72.1	72.3	72.6	72.4	76.0	77.8	81.7	88.1	85.7	83.4	77.8	71.6	60.8	48.7
12500	63.0	64.3	65.7	66.7	68.0	67.2	67.4	67.6	67.7	71.3	73.2	77.3	83.7	81.4	79.2	73.6	67.4	56.3	43.5
16000	57.9	59.2	60.5	61.4	62.5	61.7	61.9	62.3	62.6	66.3	68.2	72.4	79.0	76.8	74.6	69.2	62.9	51.3	37.6
20000	52.2	53.6	54.8	55.6	56.5	55.6	55.9	56.5	56.9	60.6	62.7	67.1	73.9	71.8	69.7	64.3	58.2	45.6	31.0
25000	45.6	47.1	48.2	49.0	50.0	49.0	49.5	50.1	50.5	54.4	56.6	61.3	68.3	66.3	64.4	59.4	53.2	39.3	21.1

TABLE: A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 09
AIRCRAFT CODE 517
OPERATION CODE 02003
PROFILE VERSION A
26 APR 76
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NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
MAX PWR A/B, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

DISTANCE (FEET)	ANGLE (DEGREES)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	110.8	110.7	114.1	115.8	117.6	116.2	116.7	117.3	116.8	120.5	122.1	124.9	130.6	127.6	124.6	118.9	113.6	103.6	93.6
250	107.9	108.6	111.9	113.7	115.4	114.0	114.5	115.1	114.7	118.3	119.9	122.7	128.5	125.4	122.4	116.9	111.5	101.5	91.5
315	105.8	106.5	109.8	111.5	113.3	111.9	112.4	113.0	112.5	116.1	117.7	120.6	126.3	123.3	120.3	114.8	109.4	99.4	89.4
400	103.6	104.3	107.6	109.3	111.1	109.7	110.2	110.7	110.3	113.8	115.5	118.3	124.1	121.1	118.1	112.6	107.3	97.3	87.3
500	101.4	102.1	105.4	107.1	108.8	107.4	107.9	108.5	108.0	111.6	113.2	116.1	121.8	118.8	115.9	110.4	105.1	95.1	85.1
630	99.1	99.9	103.1	104.8	106.5	105.1	105.6	106.1	105.6	109.2	110.9	113.7	119.5	116.5	113.6	108.2	102.8	92.8	82.8
800	96.8	97.6	100.7	102.5	104.2	102.8	103.2	103.7	103.2	106.8	108.5	111.3	117.1	114.1	111.2	105.8	100.4	90.4	80.4
1000	94.4	95.3	98.3	100.0	101.8	100.3	100.8	101.3	100.8	104.3	106.0	108.9	114.7	111.7	108.7	103.3	97.9	87.9	77.9
1250	91.9	92.8	95.8	97.5	99.2	97.8	98.2	98.7	98.2	101.7	103.4	106.3	112.1	109.1	106.2	100.7	95.2	85.2	75.2
1600	89.3	90.3	93.2	94.9	96.6	95.2	95.6	96.0	95.5	99.0	100.7	103.6	109.4	106.4	103.5	97.9	92.3	82.3	72.3
2000	86.7	87.6	90.5	92.2	93.9	92.4	92.8	93.3	92.7	96.2	97.9	100.9	106.6	103.7	100.7	95.1	89.3	79.3	69.3
2500	83.7	84.7	87.6	89.3	91.0	89.5	89.8	90.3	89.6	93.1	94.8	97.8	103.5	100.6	97.6	91.9	85.9	75.9	65.9
3150	80.5	81.5	84.4	86.1	87.8	86.3	86.6	87.0	86.3	89.8	91.5	94.4	100.2	97.2	94.2	88.3	82.3	72.3	62.3
4000	76.9	77.9	80.8	82.6	84.3	82.8	83.1	83.5	82.7	86.1	87.8	90.6	96.4	93.4	90.4	84.4	78.3	68.3	58.3
5000	72.9	73.8	76.8	78.6	80.3	78.9	79.1	79.4	78.6	82.0	83.7	86.5	92.3	89.3	86.2	80.2	74.0	64.0	54.0
6300	68.5	69.4	72.4	74.2	76.0	74.5	74.8	75.1	74.3	77.6	79.2	82.0	87.9	84.9	81.8	75.8	69.5	59.5	49.5
8000	64.5	65.5	68.3	70.1	71.8	70.4	70.6	70.9	70.1	73.4	75.0	78.0	83.9	81.0	78.0	72.0	65.8	55.8	45.8
10000	60.2	61.3	63.9	65.6	67.3	65.9	66.0	66.3	65.5	68.8	70.4	73.7	79.7	76.8	73.9	67.9	61.8	51.8	41.8
12500	55.5	56.7	59.1	60.7	62.3	60.9	61.0	61.2	60.6	64.0	65.5	69.0	75.1	72.3	69.5	63.7	57.6	47.6	37.6
16000	50.4	51.7	53.8	55.3	56.9	55.5	55.6	55.8	55.3	58.7	60.3	64.0	70.2	67.4	64.7	59.1	53.3	43.3	33.3
20000	44.9	46.3	48.0	49.4	50.8	49.5	49.6	49.8	49.6	53.0	54.7	58.7	64.9	62.2	59.7	54.5	48.9	38.9	28.9
25000	38.9	40.3	41.7	42.9	44.2	42.9	43.1	43.4	43.4	46.9	48.7	52.9	59.2	56.7	54.5	49.8	44.5	34.5	24.5

TABLE: TONE-CORRECTED, A-WEIGHTED OVERALL SOUND LEVEL (DBA)

AS A FUNCTION OF ANGLE AND DISTANCE FROM SOURCE

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
MAX PWR A/B, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS =29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 09
AIRCRAFT CODE 517
OPERATION CODE 02003
PROFILE VERSION A
26 APR 76
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DISTANCE (FEET)	ANGLE (DEGREES) 0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
200	111.2	110.7	114.1	115.8	117.6	116.2	116.7	117.3	116.8	120.5	122.1	124.9	130.6	127.6	124.6	118.9	113.6	103.6	93.6
250	109.1	108.6	111.9	113.7	115.4	114.0	114.5	115.1	114.7	118.3	119.9	122.7	128.5	125.4	122.4	116.9	111.5	101.5	91.5
315	106.9	106.5	109.8	111.5	113.3	111.9	112.4	113.0	112.5	116.1	117.7	120.6	126.3	123.3	120.3	114.8	109.4	99.4	89.4
400	104.8	104.3	107.6	109.3	111.1	109.7	110.2	110.7	110.3	113.8	115.5	118.3	124.1	121.1	118.1	112.6	107.3	97.3	87.3
500	102.5	102.1	105.4	107.1	108.8	107.4	107.9	108.5	108.0	111.6	113.2	116.1	121.8	118.8	115.9	110.4	105.1	95.1	85.1
630	100.3	99.9	103.1	104.8	106.5	105.1	105.6	106.1	105.6	109.2	110.9	113.7	119.5	116.5	113.6	108.2	102.8	92.8	82.8
800	97.9	97.6	100.7	102.5	104.2	102.8	103.2	103.7	103.2	106.8	108.5	111.3	117.1	114.1	111.2	105.8	100.4	90.4	80.4
1000	95.5	95.3	98.3	100.0	101.8	100.3	100.8	101.3	100.8	104.3	106.0	108.9	114.7	111.7	108.7	103.3	97.9	87.9	77.9
1250	93.1	92.8	95.8	97.5	99.2	97.8	98.2	98.7	98.2	101.7	103.4	106.3	112.1	109.1	106.2	100.7	95.2	85.2	75.2
1500	90.5	90.3	93.2	94.9	96.5	95.2	95.5	96.0	95.5	99.0	100.7	103.6	109.4	106.4	103.5	97.9	92.3	82.3	72.3
2000	87.6	87.6	90.5	92.2	93.9	92.4	92.8	93.3	92.7	96.2	97.9	100.9	106.6	103.7	100.7	95.1	89.3	79.3	69.3
2500	84.9	84.7	87.6	89.3	91.0	89.5	89.8	90.3	89.6	93.1	94.8	97.8	103.5	100.5	97.6	91.9	85.9	75.9	65.9
3150	81.6	81.5	84.4	86.1	87.8	86.3	86.6	87.0	86.3	89.8	91.5	94.4	100.2	97.2	94.2	88.3	82.3	72.3	62.3
4000	77.8	77.9	80.8	82.6	84.3	82.8	83.1	83.5	82.7	86.1	87.8	90.6	96.4	93.4	90.4	84.4	78.3	68.3	58.3
5000	73.6	73.8	76.8	78.6	80.3	78.9	79.1	79.4	78.6	82.0	83.7	86.5	92.3	89.3	86.2	80.2	74.0	64.0	54.0
6300	69.0	69.4	72.4	74.2	76.0	74.5	74.8	75.1	74.3	77.6	79.2	82.0	87.9	84.9	81.8	75.8	69.5	59.5	49.5
8000	64.7	65.5	68.3	70.1	71.8	70.4	70.6	70.9	70.1	73.4	75.0	78.0	83.9	81.0	78.0	72.0	65.8	55.8	45.8
10000	60.2	61.3	63.9	65.6	67.3	65.9	66.0	66.3	65.5	68.8	70.4	73.7	79.7	75.8	73.9	67.9	61.8	51.8	41.8
12500	55.5	56.7	59.1	60.7	62.3	60.9	61.0	61.2	60.6	64.0	65.5	69.0	75.1	72.3	69.5	63.7	57.6	47.6	37.6
16000	50.4	51.7	53.8	55.3	56.9	55.5	55.6	55.8	55.3	58.7	60.3	64.0	70.2	67.4	64.7	59.1	53.3	43.3	33.3
20000	44.9	46.3	48.0	49.4	50.8	49.5	49.6	49.8	49.0	53.0	54.7	58.7	64.9	62.2	59.7	54.5	48.9	38.9	28.9
25000	38.9	40.3	41.7	42.9	44.2	42.9	43.1	43.4	43.4	46.9	48.7	52.9	59.2	56.7	54.5	49.8	44.5	34.5	24.5

TABLE: NOISE LEVEL AS A FUNCTION OF ANGLE AROUND SOURCE

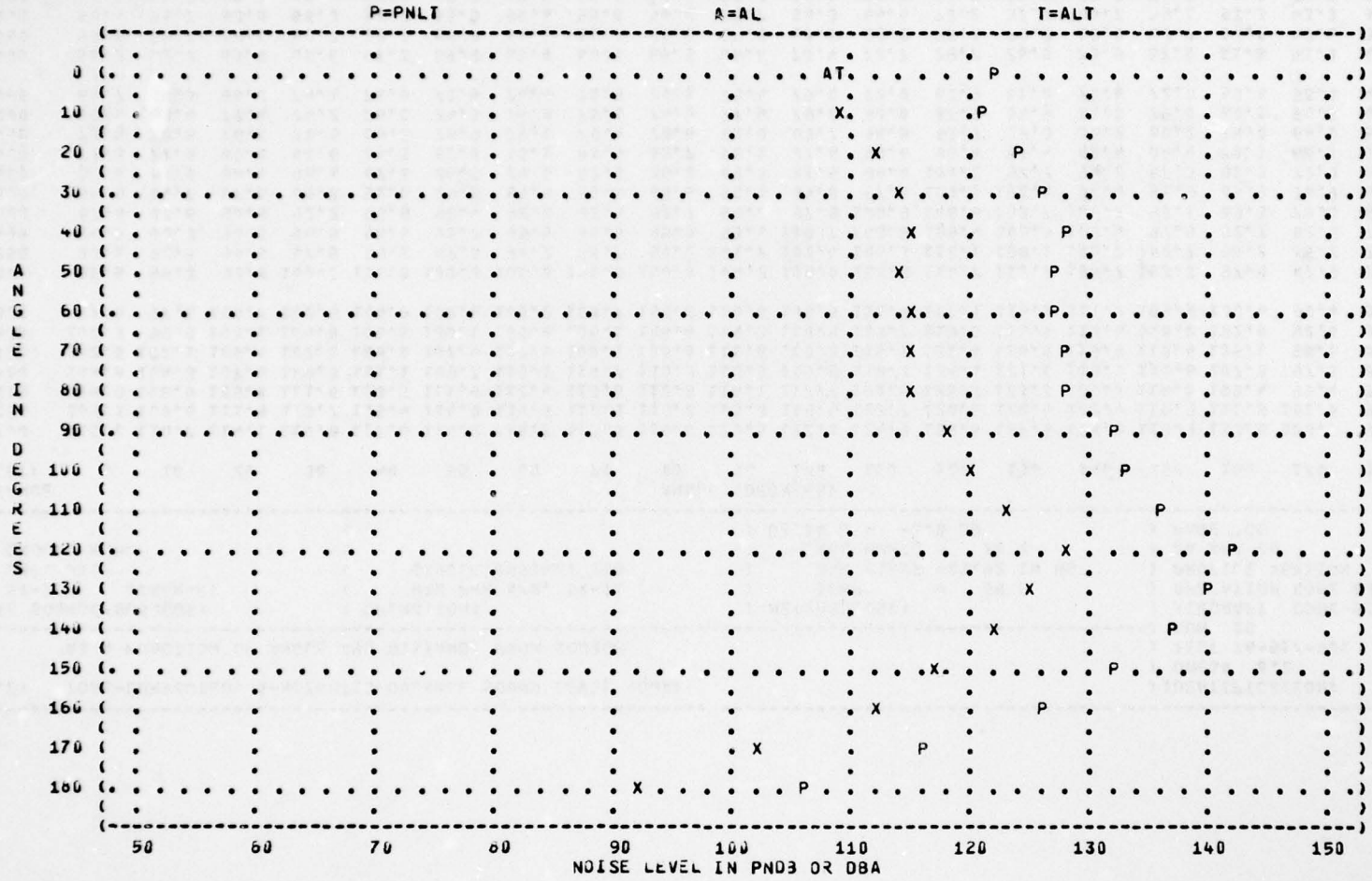
DISTANCE = 250 FEET

NOISE SOURCE/SUBJECT:
SR-71 AIRCRAFT
ENG. J58
GROUND RUNUP

OPERATION:
MAX PWR A/B, SR-71
SINGLE ENGINE, J58

METEOROLOGY:
TEMP = 59 F
BAR PRESS = 29.92 IN HG
REL HUMID = 70 %
DELTA N = -3.0 DB

IDENTIFICATION:
OMEGA 8.2
TEST 76-517-001
RUN 09
AIRCRAFT CODE 517
OPERATION CODE 02003
PROFILE VERSION A
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